

SampleID	#Associated MPs	Chr A	Chr B	Position A	Position B	Locus A	Locus B
LU16_L	7	9	9	17,810,837	17,659,799	9p22.2	9p22.2
LU14_AD	8	11	18	116,537,479	41,206,947	11q23.3	18q12.3
LU18_L	4	7	11	23,019,585	8,974,407	7p15.3	11p15.4
LU4_L	5	9	10	129,402,935	43,626,041	9q33.3	10q11.21
LU4_L	2	1	1	220,206,504	220,436,833	1q41	1q41
LU15_L	17	3	3	87,032,778	87,065,227	3p12.1	3p12.1
LU15_AD	4	3	3	87,032,778	87,065,227	3p12.1	3p12.1
LU15_L	9	4	22	46,968,354	29,065,838	4p12	22q12.1
LU15_AD	2	4	22	46,968,296	29,065,728	4p12	22q12.1
LU15_AD	7	6	6	163,132,616	163,469,612	6q26	6q26
LU15_L	3	6	6	163,132,296	163,471,395	6q26	6q26
LU16_L	4	7	7	12,240,895	37,243,964	7p21.3	7p14.1
LU16_L	2	9	9	8,308,047	17,633,787	9p24.1	9p22.2
LU16_L	2	9	9	8,382,864	44,228,869	9p24.1	9p11.2
LU7_L	3	10	10	26,032,905	33,022,512	10p12.1	10p11.22
LU16_L	2	15	18	37,285,575	13,796,827	15q14	18p11.21
LU7_L	9	7	15	25,535,698	32,330,967	7p15.2	15q13.3
LU15_AD	25	9	9	341,257	1,853,856	9p24.3	9p24.3
LU15_L	12	9	9	341,611	1,854,017	9p24.3	9p24.3
LU18_AD	8	5	7	821,042	21,495,954	5p15.33	7p15.3
LU18_L	4	5	7	822,447	21,496,140	5p15.33	7p15.3
LU21_L	7	16	20	847,599	51,868,943	16p13.3	20q13.2
LU18_L	21	6	6	1,148,107	4,882,818	6p25.3	6p25.1
LU18_AD	9	6	6	1,148,879	4,882,339	6p25.3	6p25.1
LU15_L	10	9	20	2,574,835	58,778,096	9p24.2	20q13.33
LU15_AD	16	9	20	2,810,915	56,583,209	9p24.2	20q13.32
LU15_L	7	9	20	2,812,050	56,584,482	9p24.2	20q13.32
LU16_L	18	5	7	3,026,617	19,206,398	5p15.33	7p21.1
LU16_AD	74	5	7	3,027,779	19,206,396	5p15.33	7p21.1
LU7_AD	14	7	7	4,250,651	25,361,155	7p22.2	7p15.3
LU7_L	14	7	7	4,251,049	25,360,560	7p22.2	7p15.3
LU21_L	11	5	5	7,517,666	13,801,629	5p15.31	5p15.2
LU16_AD	45	9	9	8,306,208	17,630,619	9p24.1	9p22.2
LU16_AD	19	9	9	8,380,924	44,227,709	9p24.1	9p11.2
LU14_L	27	5	5	9,387,351	24,484,223	5p15.31	5p14.2
LU14_AD	22	5	5	9,389,717	24,484,216	5p15.31	5p14.2
LU18_AD	4	5	15	11,163,957	22,168,810	5p15.2	15q11.2
LU18_L	4	5	15	11,164,109	22,167,555	5p15.2	15q11.2
LU16_AD	35	7	7	12,237,314	37,241,362	7p21.3	7p14.1
LU16_AD	34	20	20	14,893,627	15,002,856	20p12.1	20p12.1
LU16_L	23	20	20	14,893,724	15,003,097	20p12.1	20p12.1

LU16_AD	16	7	9	15,788,957	25,711,677	7p21.2	9p21.2
LU16_L	5	7	9	15,789,248	25,711,475	7p21.2	9p21.2
LU16_AD	28	9	9	15,997,279	44,233,967	9p22.3	9p11.2
LU16_L	5	9	9	15,999,462	44,233,160	9p22.3	9p11.2
LU11_L	5	1	1	16,554,128	110,171,291	1p36.13	1p13.3
LU11_AD	11	1	1	16,555,148	110,167,882	1p36.13	1p13.3
LU16_AD	11	9	9	17,810,589	17,658,331	9p22.2	9p22.2
LU16_AD	30	7	20	18,700,228	8,850,324	7p21.1	20p12.3
LU16_L	22	7	20	18,700,769	8,850,708	7p21.1	20p12.3
LU4_AD	5	7	7	21,544,327	21,588,176	7p15.3	7p15.3
LU4_L	10	1	16	22,843,106	62,176,373	1p36.12	16q21
LU4_AD	26	1	16	22,844,213	62,174,891	1p36.12	16q21
LU18_AD	12	7	11	23,016,559	8,974,736	7p15.3	11p15.4
LU20_ADb	12	21	21	24,238,073	24,290,171	21q21.2	21q21.2
LU20_L	5	21	21	24,240,354	24,290,366	21q21.2	21q21.2
LU7_AD	5	10	10	26,032,737	33,022,720	10p12.1	10p11.22
LU6_L	9	2	16	28,454,159	24,873,710	2p23.2	16p12.1
LU6_AD	4	2	16	28,459,106	24,876,338	2p23.2	16p12.1
LU6_L	15	2	2	29,550,885	42,554,761	2p23.2	2p21
LU6_AD	9	2	2	29,551,088	42,555,236	2p23.2	2p21
LU3_L	33	2	2	30,807,910	30,850,200	2p23.1	2p23.1
LU3_AD	21	2	2	30,807,978	30,850,337	2p23.1	2p23.1
LU11_AD	12	7	12	35,145,693	66,180,578	7p14.2	12q14.3
LU6_AD	5	6	6	35,209,676	163,125,662	6p21.31	6q26
LU16_AD	19	7	7	37,164,951	46,084,645	7p14.2	7p12.3
LU16_L	5	7	7	37,167,116	46,084,108	7p14.2	7p12.3
LU16_AD	8	15	18	37,281,951	13,797,657	15q14	18p11.21
LU6_L	9	2	2	38,172,570	42,426,471	2p22.2	2p21
LU15_L	20	9	20	39,193,993	56,049,437	9p13.1	20q13.31
LU15_AD	9	9	20	39,194,846	56,049,550	9p13.1	20q13.31
LU5_L	20	2	2	40,542,438	40,576,474	2p22.1	2p22.1
LU5_L	20	2	2	40,576,474	40,542,438	2p22.1	2p22.1
LU7_AD	8	7	8	40,736,377	91,451,851	7p14.1	8q21.3
LU7_L	6	7	8	40,737,341	91,452,664	7p14.1	8q21.3
LU6_AD	4	2	2	42,504,489	28,581,687	2p21	2p23.2
LU6_L	6	2	2	42,504,928	28,581,202	2p21	2p23.2
LU6_L	6	2	2	42,505,709	30,243,513	2p21	2p23.1
LU8_AD	10	1	1	44,312,571	44,342,727	1p34.1	1p34.1
LU8_L	8	1	1	44,313,500	44,343,936	1p34.1	1p34.1
LU16_L	5	7	7	46,084,108	37,167,116	7p12.3	7p14.2
LU16_AD	19	7	7	46,084,645	37,164,951	7p12.3	7p14.2
LU14_AD	15	12	12	48,024,712	62,233,799	12q13.11	12q14.1
LU11_AD	18	12	18	48,892,820	33,700,767	12q13.11	18q12.2
LU11_L	7	12	12	49,100,538	56,554,514	12q13.12	12q13.2

LU7_L	13	12	12	50,605,720	56,553,510	12q13.12	12q13.2
LU7_AD	11	12	12	50,606,910	56,548,878	12q13.12	12q13.2
LU21_L	10	5	5	57,922,349	60,760,783	5q11.2	5q12.1
LU21_AD	3	5	5	57,924,191	60,762,052	5q11.2	5q12.1
LU14_L	5	1	5	58,207,135	382,824	1p32.2	5p15.33
LU14_AD	14	1	5	58,212,043	378,117	1p32.2	5p15.33
LU4_AD	13	5	23	58,705,286	95,389,614	5q11.2	Xq21.33
LU7_L	8	12	12	62,222,439	64,819,124	12q14.1	12q14.2
LU7_AD	4	12	12	62,224,953	64,815,732	12q14.1	12q14.2
LU11_L	6	12	12	62,226,487	107,370,009	12q14.1	12q23.3
LU7_L	36	12	12	62,238,172	69,070,535	12q14.1	12q15
LU7_AD	20	12	12	62,238,173	69,070,485	12q14.1	12q15
LU16_L	4	12	12	64,458,615	81,499,617	12q14.2	12q21.31
LU16_AD	36	12	12	64,458,975	81,496,923	12q14.2	12q21.31
LU16_L	14	1	1	68,105,195	179,096,259	1p31.3	1q25.2
LU16_AD	6	1	1	68,105,687	179,096,417	1p31.3	1q25.2
LU12_AD	5	1	8	70,669,783	52,658,862	1p31.1	8q11.23
LU12_AD	8	2	13	78,998,352	21,237,228	2p12	13q12.11
LU16_AD	18	12	14	81,494,081	67,312,537	12q21.31	14q23.3
LU12_L	20	1	1	82,304,737	95,352,590	1p31.1	1p21.3
LU12_L	9	16	16	84,812,202	84,907,115	16q24.1	16q24.1
LU12_AD	13	16	16	84,812,350	84,908,385	16q24.1	16q24.1
LU14_L	10	14	14	94,815,797	94,961,627	14q32.13	14q32.13
LU14_AD	10	14	14	94,816,150	94,962,623	14q32.13	14q32.13
LU20_ADb	9	14	14	100,854,358	100,924,665	14q32.2	14q32.2
LU20_L	6	14	14	100,854,426	100,925,440	14q32.2	14q32.2
LU11_AD	6	7	12	102,839,170	66,179,474	7q22.1	12q14.3
LU14_L	6	11	18	112,024,650	60,928,545	11q23.1	18q21.33
LU14_AD	4	11	18	112,027,682	60,927,738	11q23.1	18q21.33
LU14_L	9	11	18	116,534,389	41,202,388	11q23.3	18q12.3
LU4_AD	13	9	10	129,401,997	43,624,198	9q33.3	10q11.21
LU4_AD	7	5	5	158,613,190	166,902,741	5q33.3	5q34
LU4_L	16	3	3	163,868,461	163,930,258	3q26.1	3q26.1
LU4_AD	11	3	3	163,869,007	163,931,476	3q26.1	3q26.1
LU14_L	7	1	1	166,166,750	174,933,818	1q24.1	1q25.1
LU14_AD	18	1	1	166,167,904	174,933,021	1q24.1	1q25.1
LU4_AD	15	6	6	166,457,616	166,747,376	6q27	6q27
LU3_AD	15	1	1	169,308,180	197,253,236	1q24.2	1q31.3
LU3_L	8	1	1	169,308,357	197,255,014	1q24.2	1q31.3
LU14_AD	18	1	1	174,933,021	166,167,904	1q25.1	1q24.1
LU14_L	7	1	1	174,933,818	166,166,750	1q25.1	1q24.1
LU7_L	17	1	16	185,445,329	7,036,260	1q25.3	16p13.3
LU7_AD	8	1	16	185,446,341	7,042,190	1q25.3	16p13.3
LU14_AD	6	1	22	208,266,490	28,616,068	1q32.2	22q12.1

LU4_AD	6	1	1	220,203,979	220,434,022	1q41	1q41
LU4_AD	3	4	1	12,626	48,315,958	4p16.3	1p33
LU18_L	36	4	5	12,893	520,041	4p16.3	5p15.33
LU18_AD	27	4	5	12,918	519,452	4p16.3	5p15.33
LU20_AD	3	18	12	46,338	34,315,131	18p11.32	12p11.1
LU18_AD	5	4	12	66,667	65,181,915	4p16.3	12q14.3
LU15_AD	3	5	5	67,270	115,317	5p15.33	5p15.33
LU4_AD	13	7	7	77,157	44,299,564	7p22.3	7p13
LU7_AD	4	7	7	77,854	22,900,555	7p22.3	7p15.3
LU21_L	3	4	19	87,123	22,937,430	4p16.3	19p12
LU14_AD	5	18	1	107,045	144,966,629	18p11.32	1q21.1
LU4_AD	3	1	1	114,440	174,022	1p36.33	1p36.33
LU15_AD	3	5	5	115,317	67,270	5p15.33	5p15.33
LU12_AD	3	8	15	119,738	102,494,133	8p23.3	15q26.3
LU8_L	4	4	18	127,335	14,123,187	4p16.3	18p11.21
LU15_L	3	9	9	134,036	2,392,461	9p24.3	9p24.2
LU4_AD	5	6	1	149,281	48,315,482	6p25.3	1p33
LU4_L	3	9	9	157,521	70,462,393	9p24.3	9q21.11
LU4_AD	3	1	1	174,022	114,440	1p36.33	1p36.33
LU7_L	6	7	7	181,319	37,341,357	7p22.3	7p14.1
LU4_AD	13	11	1	191,196	48,314,688	11p15.5	1p33
LU4_L	10	11	1	191,492	48,314,716	11p15.5	1p33
LU4_AD	5	16	16	202,449	61,268,802	16p13.3	16q21
LU4_AD	4	16	5	207,022	169,941,847	16p13.3	5q35.1
LU12_L	3	19	4	211,211	119,539,508	19p13.3	4q26
LU21_AD	5	7	1	213,872	550,599	7p22.3	1p36.33
LU6_L	4	12	1	216,467	152,452,425	12p13.33	1q21.3
LU7_AD	3	19	4	225,556	119,524,869	19p13.3	4q26
LU4_AD	14	1	1	231,205	48,313,516	1p36.33	1p33
LU3_L	3	1	4	253,565	165,178,108	1p36.33	4q32.3
LU20_AD	4	2	1	277,906	233,970,940	2p25.3	1q42.2
LU4_L	23	3	3	279,434	318,816	3p26.3	3p26.3
LU4_AD	21	3	3	279,758	318,888	3p26.3	3p26.3
LU4_L	23	3	3	318,816	279,434	3p26.3	3p26.3
LU4_AD	21	3	3	318,888	279,758	3p26.3	3p26.3
LU4_AD	4	1	1	337,369	222,686,567	1p36.33	1q41
LU4_AD	5	1	3	338,891	197,913,518	1p36.33	3q29
LU14_AD	14	5	1	378,117	58,212,043	5p15.33	1p32.2
LU14_L	5	5	1	382,824	58,207,135	5p15.33	1p32.2
LU15_AD	3	7	7	385,078	424,416	7p22.3	7p22.3
LU20_L	3	1	15	392,517	102,478,589	1p36.33	15q26.3
LU8_L	5	3	3	414,223	443,975	3p26.3	3p26.3
LU15_AD	3	7	7	424,416	385,078	7p22.3	7p22.3
LU8_L	5	3	3	443,975	414,223	3p26.3	3p26.3

LU7_AD	3	5	10	470,395	102,143,065	5p15.33	10q24.31
LU12_AD	4	4	4	503,992	538,177	4p16.3	4p16.3
LU18_AD	27	5	4	519,452	12,918	5p15.33	4p16.3
LU18_L	36	5	4	520,041	12,893	5p15.33	4p16.3
LU18_L	83	5	5	531,221	27,532,549	5p15.33	5p14.1
LU18_AD	103	5	5	533,109	27,528,281	5p15.33	5p14.1
LU18_AD	23	5	12	536,886	69,513,985	5p15.33	12q15
LU18_L	22	5	12	537,600	69,514,020	5p15.33	12q15
LU12_AD	4	4	4	538,177	503,992	4p16.3	4p16.3
LU18_L	9	5	15	541,225	20,591,197	5p15.33	15q11.1
LU18_AD	4	5	5	542,125	671,481	5p15.33	5p15.33
LU18_AD	11	5	5	542,268	667,657	5p15.33	5p15.33
LU18_L	14	5	5	542,507	667,172	5p15.33	5p15.33
LU18_AD	34	5	12	543,683	63,933,251	5p15.33	12q14.2
LU18_L	24	5	12	544,248	63,933,248	5p15.33	12q14.2
LU18_L	12	5	12	546,743	69,532,842	5p15.33	12q15
LU21_AD	5	1	7	550,599	213,872	1p36.33	7p22.3
LU18_AD	3	5	5	551,433	27,527,513	5p15.33	5p14.1
LU18_L	15	5	12	566,401	68,834,858	5p15.33	12q15
LU18_AD	13	5	12	566,584	68,834,970	5p15.33	12q15
LU18_AD	3	5	5	572,799	917,471	5p15.33	5p15.33
LU18_AD	5	5	5	573,271	916,509	5p15.33	5p15.33
LU18_AD	3	5	5	573,598	917,416	5p15.33	5p15.33
LU18_AD	3	5	5	573,777	915,033	5p15.33	5p15.33
LU18_AD	37	5	12	600,125	71,196,018	5p15.33	12q15
LU18_L	45	5	12	600,771	71,195,834	5p15.33	12q15
LU18_AD	3	5	12	612,987	69,501,341	5p15.33	12q15
LU18_AD	17	5	12	615,924	68,442,186	5p15.33	12q15
LU18_L	26	5	12	616,074	68,443,146	5p15.33	12q15
LU18_AD	8	5	15	624,268	22,746,067	5p15.33	15q11.2
LU18_AD	40	5	12	633,095	67,571,123	5p15.33	12q14.3
LU18_L	6	5	12	648,405	69,491,295	5p15.33	12q15
LU18_AD	3	5	12	649,322	69,490,926	5p15.33	12q15
LU18_AD	8	5	12	660,515	71,244,421	5p15.33	12q15
LU18_L	3	5	12	660,998	71,244,110	5p15.33	12q15
LU18_L	4	5	12	661,114	66,773,619	5p15.33	12q14.3
LU18_AD	4	5	12	661,420	66,772,978	5p15.33	12q14.3
LU20_AD	3	1	3	664,882	197,918,637	1p36.33	3q29
LU18_L	14	5	5	667,172	542,507	5p15.33	5p15.33
LU18_AD	7	5	15	667,266	20,590,632	5p15.33	15q11.1
LU18_AD	11	5	5	667,657	542,268	5p15.33	5p15.33
LU18_AD	4	5	5	671,481	542,125	5p15.33	5p15.33
LU18_AD	6	5	12	674,277	70,727,402	5p15.33	12q15
LU11_AD	3	10	10	681,232	719,800	10p15.3	10p15.3

LU18_L	21	5	15	685,504	20,003,985	5p15.33	15q11.1
LU18_AD	22	5	15	686,514	20,004,172	5p15.33	15q11.1
LU18_L	6	5	12	689,580	67,824,430	5p15.33	12q15
LU18_AD	5	5	12	690,448	67,825,530	5p15.33	12q15
LU18_L	10	5	5	692,288	1,345,520	5p15.33	5p15.33
LU18_AD	74	5	12	698,259	71,220,679	5p15.33	12q15
LU18_L	74	5	12	698,536	71,220,646	5p15.33	12q15
LU18_AD	20	5	12	708,756	71,190,350	5p15.33	12q15
LU18_L	22	5	12	711,988	71,187,983	5p15.33	12q15
LU16_AD	34	5	7	716,442	11,220,305	5p15.33	7p21.3
LU16_L	15	5	7	716,988	11,221,089	5p15.33	7p21.3
LU11_AD	3	10	10	719,800	681,232	10p15.3	10p15.3
LU18_AD	3	5	7	731,049	21,496,042	5p15.33	7p15.3
LU18_AD	8	5	15	741,481	46,973,072	5p15.33	15q21.1
LU18_L	5	5	15	743,212	46,973,575	5p15.33	15q21.1
LU18_L	14	5	15	751,751	40,732,617	5p15.33	15q15.1
LU18_L	38	5	5	756,879	26,025,229	5p15.33	5p14.1
LU18_AD	46	5	5	757,025	26,024,522	5p15.33	5p14.1
LU18_AD	15	5	12	767,603	69,985,077	5p15.33	12q15
LU18_L	23	5	12	768,539	69,984,073	5p15.33	12q15
LU18_AD	29	5	15	773,034	37,240,871	5p15.33	15q14
LU4_AD	3	20	23	773,607	148,957,855	20p13	Xq28
LU18_L	24	5	15	777,043	37,236,463	5p15.33	15q14
LU18_AD	4	5	15	778,666	20,004,450	5p15.33	15q11.1
LU18_AD	8	5	12	789,969	71,220,800	5p15.33	12q15
LU18_AD	3	5	12	797,879	71,187,371	5p15.33	12q15
LU16_AD	5	5	7	801,515	11,220,508	5p15.33	7p21.3
LU7_L	3	1	10	802,915	135,506,367	1p36.33	10q26.3
LU18_AD	4	5	7	822,348	26,971,109	5p15.33	7p15.2
LU21_L	3	16	16	847,884	5,164,061	16p13.3	16p13.3
LU16_L	5	5	5	851,119	882,142	5p15.33	5p15.33
LU18_AD	3	5	5	859,440	908,330	5p15.33	5p15.33
LU11_AD	8	18	18	865,374	1,037,798	18p11.32	18p11.32
LU18_AD	6	5	15	873,571	37,181,252	5p15.33	15q14
LU18_L	4	5	15	874,833	37,179,914	5p15.33	15q14
LU6_L	7	1	11	876,006	113,117,768	1p36.33	11q23.2
LU6_AD	6	1	11	877,326	113,116,372	1p36.33	11q23.2
LU18_AD	15	5	12	877,387	69,985,429	5p15.33	12q15
LU18_L	14	5	12	877,479	69,984,753	5p15.33	12q15
LU16_L	5	5	5	882,142	851,119	5p15.33	5p15.33
LU18_AD	20	5	12	891,047	67,803,224	5p15.33	12q15
LU18_L	15	5	12	891,237	67,803,303	5p15.33	12q15
LU3_L	6	3	2	894,344	65,111,009	3p26.3	2p14
LU18_AD	3	5	5	908,330	859,440	5p15.33	5p15.33

LU18_AD	14	5	12	912,009	58,216,636	5p15.33	12q14.1
LU18_L	11	5	12	912,090	58,217,077	5p15.33	12q14.1
LU18_AD	11	5	12	914,913	70,972,560	5p15.33	12q15
LU18_AD	3	5	5	915,033	573,777	5p15.33	5p15.33
LU18_L	16	5	12	915,040	70,972,572	5p15.33	12q15
LU18_AD	5	5	5	916,509	573,271	5p15.33	5p15.33
LU15_L	5	2	10	917,156	130,722,642	2p25.3	10q26.3
LU18_AD	3	5	5	917,416	573,598	5p15.33	5p15.33
LU18_AD	3	5	5	917,471	572,799	5p15.33	5p15.33
LU18_L	15	5	5	992,986	4,884,130	5p15.33	5p15.32
LU18_AD	20	5	5	994,099	4,884,036	5p15.33	5p15.32
LU18_L	12	5	12	1,008,524	63,584,320	5p15.33	12q14.2
LU18_AD	14	5	12	1,009,042	63,584,827	5p15.33	12q14.2
LU18_L	85	5	5	1,017,481	1,930,100	5p15.33	5p15.33
LU18_AD	76	5	5	1,018,348	1,930,190	5p15.33	5p15.33
LU11_AD	28	18	18	1,022,900	5,204,385	18p11.32	18p11.31
LU18_L	10	5	12	1,034,578	71,274,490	5p15.33	12q15
LU18_AD	5	5	12	1,035,190	71,274,178	5p15.33	12q15
LU11_AD	8	18	18	1,037,798	865,374	18p11.32	18p11.32
LU18_L	7	5	12	1,073,578	70,975,421	5p15.33	12q15
LU18_AD	5	5	12	1,074,215	70,976,755	5p15.33	12q15
LU18_AD	3	5	12	1,078,794	69,787,639	5p15.33	12q15
LU18_L	8	5	5	1,081,481	2,193,321	5p15.33	5p15.33
LU18_L	8	5	15	1,081,484	20,885,972	5p15.33	15q11.2
LU18_AD	4	5	5	1,104,732	1,604,153	5p15.33	5p15.33
LU18_L	5	5	5	1,105,185	1,604,587	5p15.33	5p15.33
LU18_L	11	5	12	1,121,349	69,332,949	5p15.33	12q15
LU18_AD	18	5	5	1,125,987	2,559,973	5p15.33	5p15.33
LU18_L	15	5	5	1,126,065	2,559,541	5p15.33	5p15.33
LU18_AD	70	5	12	1,132,839	67,715,757	5p15.33	12q15
LU18_L	79	5	12	1,132,896	67,716,629	5p15.33	12q15
LU18_AD	24	5	12	1,134,039	65,768,507	5p15.33	12q14.3
LU18_L	25	5	12	1,134,838	65,768,650	5p15.33	12q14.3
LU18_L	46	5	12	1,149,256	69,483,640	5p15.33	12q15
LU18_AD	44	5	12	1,149,936	69,481,147	5p15.33	12q15
LU18_L	19	5	12	1,153,164	71,060,341	5p15.33	12q15
LU18_AD	74	5	12	1,156,048	70,111,687	5p15.33	12q15
LU18_L	54	5	12	1,156,123	70,111,975	5p15.33	12q15
LU18_AD	10	5	12	1,156,958	71,057,053	5p15.33	12q15
LU18_AD	24	5	12	1,185,326	67,098,733	5p15.33	12q14.3
LU18_L	20	5	12	1,186,424	67,098,890	5p15.33	12q14.3
LU18_L	19	5	5	1,196,588	1,263,360	5p15.33	5p15.33
LU18_AD	18	5	5	1,197,462	1,262,788	5p15.33	5p15.33
LU18_AD	12	5	1	1,206,184	143,389,562	5p15.33	1q21.1

LU18_L	9	5	1	1,206,187	143,389,674	5p15.33	1q21.1
LU18_AD	20	5	1	1,206,232	142,838,166	5p15.33	1q21.1
LU18_L	23	5	25	1,206,294	570,517	5p15.33	25
LU18_L	5	5	1	1,206,339	142,701,075	5p15.33	1q21.1
LU18_L	6	5	25	1,206,350	163,355	5p15.33	25
LU18_AD	21	5	25	1,206,472	570,534	5p15.33	25
LU18_L	15	5	1	1,206,607	142,837,623	5p15.33	1q21.1
LU18_AD	3	5	4	1,206,987	49,491,069	5p15.33	4p11
LU18_AD	10	5	5	1,228,672	1,262,797	5p15.33	5p15.33
LU20_AD	3	9	9	1,234,151	1,264,038	9p24.3	9p24.3
LU18_AD	18	5	5	1,262,788	1,197,462	5p15.33	5p15.33
LU18_AD	10	5	5	1,262,797	1,228,672	5p15.33	5p15.33
LU18_L	19	5	5	1,263,360	1,196,588	5p15.33	5p15.33
LU20_AD	3	9	9	1,264,038	1,234,151	9p24.3	9p24.3
LU18_L	22	5	12	1,272,543	71,477,717	5p15.33	12q15
LU18_AD	32	5	12	1,272,945	71,474,763	5p15.33	12q15
LU18_AD	154	5	5	1,311,231	4,214,854	5p15.33	5p15.33
LU18_L	137	5	5	1,314,110	4,214,933	5p15.33	5p15.33
LU11_AD	7	18	18	1,332,773	5,328,689	18p11.32	18p11.31
LU18_L	5	5	15	1,340,329	22,918,340	5p15.33	15q11.2
LU18_AD	5	5	15	1,340,380	22,918,240	5p15.33	15q11.2
LU18_L	10	5	5	1,345,520	692,288	5p15.33	5p15.33
LU18_L	5	5	5	1,357,551	1,432,438	5p15.33	5p15.33
LU18_AD	4	5	5	1,368,730	1,889,832	5p15.33	5p15.33
LU18_AD	3	5	5	1,371,010	1,890,263	5p15.33	5p15.33
LU18_AD	4	5	5	1,383,805	1,878,340	5p15.33	5p15.33
LU18_L	4	5	5	1,384,150	1,879,638	5p15.33	5p15.33
LU7_L	3	7	7	1,391,180	1,654,074	7p22.3	7p22.3
LU18_L	4	5	7	1,399,292	146,849,957	5p15.33	7q35
LU12_L	8	8	8	1,422,744	65,889,530	8p23.3	8q12.3
LU18_AD	12	5	5	1,425,436	2,038,312	5p15.33	5p15.33
LU18_L	11	5	5	1,425,450	2,040,776	5p15.33	5p15.33
LU12_L	15	8	8	1,426,628	128,456,563	8p23.3	8q24.21
LU18_L	17	5	5	1,427,067	20,438,704	5p15.33	5p14.3
LU18_AD	20	5	5	1,427,984	20,438,135	5p15.33	5p14.3
LU18_L	5	5	5	1,432,438	1,357,551	5p15.33	5p15.33
LU18_L	3	5	12	1,444,537	70,255,023	5p15.33	12q15
LU18_L	5	5	12	1,447,881	69,175,757	5p15.33	12q15
LU11_AD	12	18	18	1,510,047	5,096,416	18p11.32	18p11.31
LU5_AD	3	10	10	1,538,000	1,569,982	10p15.3	10p15.3
LU5_AD	3	10	10	1,569,982	1,538,000	10p15.3	10p15.3
LU18_AD	6	5	3	1,578,543	184,731,057	5p15.33	3q27.2
LU18_AD	3	5	4	1,578,831	74,236,597	5p15.33	4q13.3
LU8_L	3	5	4	1,579,275	74,234,453	5p15.33	4q13.3

LU18_AD	4	5	14	1,579,368	103,705,008	5p15.33	14q32.32
LU18_L	14	5	4	1,579,402	127,055,732	5p15.33	4q28.1
LU18_L	5	5	10	1,580,032	132,089,348	5p15.33	10q26.3
LU18_L	4	5	4	1,580,785	92,618,075	5p15.33	4q22.1
LU18_L	3	5	8	1,585,090	47,191,805	5p15.33	8q11.1
LU18_AD	4	5	5	1,604,153	1,104,732	5p15.33	5p15.33
LU18_L	5	5	5	1,604,587	1,105,185	5p15.33	5p15.33
LU18_L	14	5	3	1,613,472	73,114,729	5p15.33	3p13
LU18_AD	12	5	3	1,613,503	73,112,801	5p15.33	3p13
LU16_AD	13	5	7	1,616,951	29,756,227	5p15.33	7p14.3
LU16_L	10	5	7	1,617,617	29,754,840	5p15.33	7p14.3
LU18_L	16	5	12	1,632,163	67,132,476	5p15.33	12q14.3
LU18_AD	26	5	12	1,632,929	67,129,761	5p15.33	12q14.3
LU7_L	3	7	7	1,654,074	1,391,180	7p22.3	7p22.3
LU21_L	5	18	20	1,672,161	54,825,378	18p11.32	20q13.2
LU4_L	8	16	16	1,722,558	64,006,946	16p13.3	16q21
LU16_L	7	5	7	1,723,953	13,498,507	5p15.33	7p21.3
LU4_AD	25	16	16	1,724,150	64,004,909	16p13.3	16q21
LU16_AD	39	5	7	1,727,588	13,493,241	5p15.33	7p21.3
LU18_L	31	5	5	1,729,318	2,332,673	5p15.33	5p15.33
LU18_AD	22	5	5	1,729,768	2,332,600	5p15.33	5p15.33
LU16_AD	60	5	7	1,732,585	11,335,694	5p15.33	7p21.3
LU16_L	9	5	7	1,732,844	11,338,142	5p15.33	7p21.3
LU16_AD	4	5	7	1,738,863	16,516,173	5p15.33	7p21.1
LU16_AD	9	5	1	1,753,356	142,667,341	5p15.33	1q21.1
LU18_AD	3	5	12	1,768,300	71,265,516	5p15.33	12q15
LU16_AD	40	5	7	1,792,205	46,079,623	5p15.33	7p12.3
LU16_L	5	5	7	1,796,862	46,079,607	5p15.33	7p12.3
LU16_AD	5	5	7	1,797,157	15,749,341	5p15.33	7p21.2
LU20_AD	3	12	2	1,823,755	47,329,949	12p13.33	2p21
LU16_AD	7	5	20	1,840,851	2,512,873	5p15.33	20p13
LU16_L	6	5	20	1,842,731	2,513,700	5p15.33	20p13
LU15_AD	25	9	9	1,853,856	341,257	9p24.3	9p24.3
LU15_L	12	9	9	1,854,017	341,611	9p24.3	9p24.3
LU18_AD	4	5	5	1,878,340	1,383,805	5p15.33	5p15.33
LU18_L	4	5	5	1,879,638	1,384,150	5p15.33	5p15.33
LU18_AD	4	5	5	1,889,832	1,368,730	5p15.33	5p15.33
LU18_AD	3	5	5	1,890,263	1,371,010	5p15.33	5p15.33
LU20_AD	4	4	12	1,923,432	40,353,936	4p16.3	12q12
LU18_L	85	5	5	1,930,100	1,017,481	5p15.33	5p15.33
LU18_AD	76	5	5	1,930,190	1,018,348	5p15.33	5p15.33
LU18_L	17	5	5	2,014,381	2,089,873	5p15.33	5p15.33
LU18_AD	13	5	5	2,015,742	2,092,012	5p15.33	5p15.33
LU18_AD	4	5	5	2,016,598	2,090,436	5p15.33	5p15.33

LU4_AD	27	1	16	2,035,656	69,737,043	1p36.33	16q22.1
LU4_L	19	1	16	2,036,448	69,736,454	1p36.33	16q22.1
LU18_AD	12	5	5	2,038,312	1,425,436	5p15.33	5p15.33
LU18_L	11	5	5	2,040,776	1,425,450	5p15.33	5p15.33
LU18_AD	74	5	12	2,057,753	67,795,485	5p15.33	12q15
LU18_L	67	5	12	2,058,241	67,796,636	5p15.33	12q15
LU5_AD	3	2	2	2,059,445	2,092,789	2p25.3	2p25.3
LU18_L	71	5	5	2,083,138	2,587,550	5p15.33	5p15.33
LU18_AD	80	5	5	2,083,978	2,587,935	5p15.33	5p15.33
LU21_AD	3	6	6	2,089,167	2,120,742	6p25.3	6p25.3
LU18_L	17	5	5	2,089,873	2,014,381	5p15.33	5p15.33
LU18_AD	4	5	5	2,090,436	2,016,598	5p15.33	5p15.33
LU18_AD	13	5	5	2,092,012	2,015,742	5p15.33	5p15.33
LU5_AD	3	2	2	2,092,789	2,059,445	2p25.3	2p25.3
LU21_AD	3	6	6	2,120,742	2,089,167	6p25.3	6p25.3
LU7_L	7	7	12	2,178,343	58,665,692	7p22.3	12q14.1
LU18_L	15	5	15	2,192,717	20,885,998	5p15.33	15q11.2
LU18_L	8	5	5	2,193,321	1,081,481	5p15.33	5p15.33
LU18_AD	10	5	15	2,193,450	20,885,587	5p15.33	15q11.2
LU4_AD	4	7	7	2,209,522	2,294,631	7p22.3	7p22.3
LU4_AD	10	7	23	2,209,919	84,393,892	7p22.3	Xq21.1
LU18_L	17	5	5	2,221,577	2,589,686	5p15.33	5p15.33
LU18_AD	11	5	5	2,224,550	2,585,856	5p15.33	5p15.33
LU18_AD	17	5	5	2,227,256	2,831,836	5p15.33	5p15.33
LU18_L	18	5	5	2,227,759	2,831,058	5p15.33	5p15.33
LU14_L	10	12	12	2,229,551	2,260,197	12p13.33	12p13.33
LU18_AD	78	5	5	2,246,734	2,285,074	5p15.33	5p15.33
LU18_L	20	5	5	2,249,195	2,284,822	5p15.33	5p15.33
LU18_L	53	5	5	2,251,610	2,285,114	5p15.33	5p15.33
LU14_L	10	12	12	2,260,197	2,229,551	12p13.33	12p13.33
LU18_L	20	5	5	2,284,822	2,249,195	5p15.33	5p15.33
LU18_AD	78	5	5	2,285,074	2,246,734	5p15.33	5p15.33
LU18_L	53	5	5	2,285,114	2,251,610	5p15.33	5p15.33
LU4_AD	4	7	7	2,294,631	2,209,522	7p22.3	7p22.3
LU4_AD	3	6	1	2,307,055	247,872,399	6p25.2	1q44
LU21_L	3	6	4	2,314,700	92,965,289	6p25.2	4q22.1
LU18_AD	6	11	7	2,317,489	22,961,612	11p15.5	7p15.3
LU18_AD	22	5	5	2,332,600	1,729,768	5p15.33	5p15.33
LU18_L	31	5	5	2,332,673	1,729,318	5p15.33	5p15.33
LU18_AD	10	11	12	2,380,674	75,446,462	11p15.5	12q21.1
LU18_L	9	11	12	2,381,189	75,446,258	11p15.5	12q21.1
LU15_L	3	9	9	2,392,461	134,036	9p24.2	9p24.3
LU18_L	3	5	5	2,398,069	2,454,906	5p15.33	5p15.33
LU18_L	5	5	5	2,403,624	2,460,268	5p15.33	5p15.33

LU18_L	3	5	5	2,454,906	2,398,069	5p15.33	5p15.33
LU18_L	5	5	5	2,460,268	2,403,624	5p15.33	5p15.33
LU15_L	7	9	9	2,472,867	31,385,771	9p24.2	9p21.1
LU14_AD	4	5	14	2,473,432	95,200,473	5p15.33	14q32.13
LU14_L	3	5	14	2,473,953	95,199,013	5p15.33	14q32.13
LU15_L	3	9	20	2,481,256	59,315,490	9p24.2	20q13.33
LU14_AD	11	5	15	2,481,699	68,580,449	5p15.33	15q23
LU14_L	6	5	15	2,482,154	68,580,056	5p15.33	15q23
LU16_AD	7	20	5	2,512,873	1,840,851	20p13	5p15.33
LU16_L	6	20	5	2,513,700	1,842,731	20p13	5p15.33
LU18_AD	26	5	12	2,520,786	69,306,554	5p15.33	12q15
LU18_L	44	5	12	2,524,107	69,307,567	5p15.33	12q15
LU18_L	50	5	12	2,525,335	67,035,186	5p15.33	12q14.3
LU18_AD	48	5	12	2,525,895	67,035,327	5p15.33	12q14.3
LU7_AD	5	20	14	2,527,625	73,357,682	20p13	14q24.2
LU7_L	10	20	14	2,532,334	73,361,574	20p13	14q24.2
LU18_L	15	5	5	2,559,541	1,126,065	5p15.33	5p15.33
LU18_AD	18	5	5	2,559,973	1,125,987	5p15.33	5p15.33
LU7_AD	8	7	12	2,585,586	68,275,994	7p22.3	12q15
LU18_AD	11	5	5	2,585,856	2,224,550	5p15.33	5p15.33
LU7_L	14	7	12	2,585,968	68,276,387	7p22.3	12q15
LU18_L	71	5	5	2,587,550	2,083,138	5p15.33	5p15.33
LU18_AD	80	5	5	2,587,935	2,083,978	5p15.33	5p15.33
LU18_L	17	5	5	2,589,686	2,221,577	5p15.33	5p15.33
LU7_L	7	7	12	2,600,065	64,216,120	7p22.3	12q14.2
LU7_L	4	7	7	2,602,033	16,045,939	7p22.3	7p21.2
LU18_L	34	5	12	2,603,674	69,312,446	5p15.33	12q15
LU18_AD	32	5	12	2,603,682	69,311,333	5p15.33	12q15
LU4_AD	3	11	11	2,605,176	2,642,433	11p15.5	11p15.5
LU18_L	28	5	4	2,639,660	49,312,237	5p15.33	4p11
LU18_AD	6	5	4	2,639,746	49,516,834	5p15.33	4p11
LU18_L	23	5	2	2,639,919	162,138,215	5p15.33	2q24.2
LU18_AD	13	5	2	2,640,017	162,138,146	5p15.33	2q24.2
LU18_L	8	5	2	2,640,074	133,040,171	5p15.33	2q21.2
LU18_L	4	5	21	2,640,271	9,829,462	5p15.33	21p11.2
LU18_AD	22	5	1	2,640,272	143,283,169	5p15.33	1q21.1
LU18_L	9	5	19	2,640,292	44,913,952	5p15.33	19q13.31
LU18_L	17	5	1	2,640,302	143,283,183	5p15.33	1q21.1
LU18_AD	10	5	19	2,640,505	44,913,976	5p15.33	19q13.31
LU18_AD	23	5	4	2,640,891	49,311,102	5p15.33	4p11
LU18_AD	7	5	2	2,641,089	133,040,160	5p15.33	2q21.2
LU18_L	8	5	4	2,641,303	49,515,019	5p15.33	4p11
LU4_AD	3	11	11	2,642,433	2,605,176	11p15.5	11p15.5
LU3_L	3	9	9	2,663,162	2,693,465	9p24.2	9p24.2

LU3_L	3	9	9	2,693,465	2,663,162	9p24.2	9p24.2
LU18_AD	14	5	5	2,727,901	4,436,945	5p15.33	5p15.33
LU18_L	26	5	5	2,729,989	4,435,385	5p15.33	5p15.33
LU18_AD	4	5	12	2,735,709	66,440,788	5p15.33	12q14.3
LU7_L	3	3	3	2,747,698	2,783,037	3p26.3	3p26.3
LU3_L	3	24	11	2,754,821	61,816,741	Yp11.31	11q12.3
LU7_L	4	7	7	2,757,643	145,136,762	7p22.3	7q35
LU18_AD	5	2	2	2,759,179	7,300,090	2p25.3	2p25.1
LU7_L	3	3	3	2,783,037	2,747,698	3p26.3	3p26.3
LU18_L	14	5	12	2,813,708	69,892,725	5p15.33	12q15
LU18_AD	17	5	12	2,814,435	69,892,598	5p15.33	12q15
LU18_AD	4	5	12	2,822,963	64,208,194	5p15.33	12q14.2
LU7_AD	4	12	20	2,829,911	19,660,383	12p13.33	20p11.23
LU18_L	18	5	5	2,831,058	2,227,759	5p15.33	5p15.33
LU18_AD	17	5	5	2,831,836	2,227,256	5p15.33	5p15.33
LU18_AD	40	5	12	2,852,013	70,665,956	5p15.33	12q15
LU18_L	45	5	12	2,852,446	70,665,897	5p15.33	12q15
LU18_AD	56	5	12	2,879,340	67,079,638	5p15.33	12q14.3
LU18_L	15	5	12	2,881,087	64,806,729	5p15.33	12q14.2
LU18_AD	6	5	12	2,881,400	64,806,576	5p15.33	12q14.2
LU18_L	44	5	12	2,881,540	67,077,350	5p15.33	12q14.3
LU18_L	5	5	15	2,890,848	29,064,814	5p15.33	15q13.1
LU18_L	104	5	12	2,922,988	69,080,467	5p15.33	12q15
LU18_AD	92	5	12	2,923,426	69,080,472	5p15.33	12q15
LU4_AD	5	10	10	2,950,164	2,981,456	10p15.3	10p15.3
LU4_AD	3	23	7	2,971,512	19,361,067	Xp22.33	7p21.1
LU12_L	12	8	8	2,974,570	134,958,983	8p23.2	8q24.22
LU12_L	15	8	8	2,975,819	104,706,094	8p23.2	8q22.3
LU4_AD	5	10	10	2,981,456	2,950,164	10p15.3	10p15.3
LU16_AD	75	5	7	3,022,173	15,770,672	5p15.33	7p21.2
LU16_L	13	5	7	3,022,637	15,770,932	5p15.33	7p21.2
LU4_AD	4	23	7	3,052,483	12,609,099	Xp22.33	7p21.3
LU4_AD	5	2	2	3,083,838	3,114,759	2p25.3	2p25.3
LU4_AD	9	7	7	3,087,878	7,755,924	7p22.2	7p21.3
LU4_AD	10	23	7	3,089,196	34,775,379	Xp22.33	7p14.3
LU11_AD	3	8	21	3,098,843	27,603,204	8p23.2	21q21.3
LU4_AD	6	7	7	3,110,811	3,660,414	7p22.2	7p22.2
LU4_AD	5	2	2	3,114,759	3,083,838	2p25.3	2p25.3
LU4_AD	6	7	23	3,123,033	86,034,537	7p22.2	Xq21.2
LU18_L	7	11	11	3,245,419	6,791,450	11p15.4	11p15.4
LU18_AD	3	11	11	3,247,140	6,792,232	11p15.4	11p15.4
LU18_AD	6	11	11	3,249,463	6,816,121	11p15.4	11p15.4
LU18_L	6	11	11	3,251,286	6,815,514	11p15.4	11p15.4
LU4_L	5	16	1	3,266,841	153,073,736	16p13.3	1q21.3

LU4_AD	8	7	7	3,310,248	3,631,116	7p22.2	7p22.2
LU18_AD	3	5	2	3,323,691	239,393,785	5p15.33	2q37.3
LU21_AD	3	10	10	3,360,574	3,392,870	10p15.2	10p15.2
LU21_AD	3	10	10	3,392,870	3,360,574	10p15.2	10p15.2
LU12_AD	3	11	4	3,405,615	3,901,102	11p15.4	4p16.3
LU12_AD	3	20	5	3,420,813	37,574,850	20p13	5p13.2
LU12_L	4	20	5	3,420,905	37,574,926	20p13	5p13.2
LU3_AD	5	9	9	3,476,124	3,508,236	9p24.2	9p24.2
LU3_AD	5	9	9	3,508,236	3,476,124	9p24.2	9p24.2
LU11_AD	3	11	8	3,596,434	11,866,809	11p15.4	8p23.1
LU4_AD	7	7	7	3,597,635	5,751,300	7p22.2	7p22.1
LU3_AD	3	6	6	3,602,442	3,634,827	6p25.2	6p25.2
LU21_AD	5	11	4	3,614,359	3,888,006	11p15.4	4p16.3
LU4_AD	8	7	7	3,631,116	3,310,248	7p22.2	7p22.2
LU3_AD	3	6	6	3,634,827	3,602,442	6p25.2	6p25.2
LU4_AD	13	7	7	3,647,248	7,750,242	7p22.2	7p21.3
LU4_AD	6	7	7	3,660,414	3,110,811	7p22.2	7p22.2
LU18_L	5	23	23	3,735,743	3,848,602	Xp22.33	Xp22.33
LU3_L	5	12	6	3,746,597	14,387,555	12p13.32	6p23
LU18_L	5	23	23	3,848,602	3,735,743	Xp22.33	Xp22.33
LU4_AD	3	4	12	3,883,047	8,559,786	4p16.3	12p13.31
LU21_L	4	4	8	3,883,418	6,939,920	4p16.3	8p23.1
LU21_AD	5	4	11	3,888,006	3,614,359	4p16.3	11p15.4
LU12_AD	3	4	11	3,901,102	3,405,615	4p16.3	11p15.4
LU18_AD	10	8	7	3,943,200	27,156,624	8p23.2	7p15.2
LU18_L	17	8	7	3,943,249	27,157,716	8p23.2	7p15.2
LU18_L	13	8	5	3,952,442	16,169,472	8p23.2	5p15.1
LU18_AD	17	8	5	3,952,589	16,169,668	8p23.2	5p15.1
LU4_AD	3	4	5	4,047,721	40,107,508	4p16.3	5p13.1
LU4_AD	3	6	6	4,103,577	4,146,878	6p25.2	6p25.2
LU12_L	4	4	16	4,115,879	5,259,210	4p16.3	16p13.3
LU18_L	3	4	3	4,130,246	8,728,437	4p16.3	3p25.3
LU4_AD	3	4	2	4,133,528	159,707,493	4p16.3	2q24.1
LU4_L	4	4	3	4,134,397	8,716,432	4p16.3	3p25.3
LU4_AD	3	6	6	4,146,878	4,103,577	6p25.2	6p25.2
LU18_AD	3	4	4	4,167,116	9,101,248	4p16.3	4p16.1
LU18_AD	3	4	9	4,175,441	93,504,404	4p16.3	9q22.2
LU4_AD	12	16	16	4,179,466	62,133,074	16p13.3	16q21
LU4_L	13	16	16	4,180,489	62,131,211	16p13.3	16q21
LU7_L	8	11	22	4,183,044	24,551,019	11p15.4	22q11.23
LU7_AD	5	11	22	4,183,238	24,549,099	11p15.4	22q11.23
LU3_L	3	11	11	4,185,052	4,225,106	11p15.4	11p15.4
LU18_AD	154	5	5	4,214,854	1,311,231	5p15.33	5p15.33
LU18_L	137	5	5	4,214,933	1,314,110	5p15.33	5p15.33

LU3_L	3	11	11	4,225,106	4,185,052	11p15.4	11p15.4
LU20_AD	3	1	3	4,246,967	97,911,418	1p36.32	3q11.2
LU3_L	3	23	24	4,251,303	19,278,782	Xp22.33	Yq11.221
LU21_L	6	4	2	4,311,051	91,854,945	4p16.3	2p11.1
LU16_L	5	20	7	4,377,366	29,748,368	20p13	7p14.3
LU16_AD	6	20	7	4,378,577	29,748,533	20p13	7p14.3
LU20_AD	6	6	2	4,384,733	128,795,121	6p25.1	2q14.3
LU18_AD	11	5	5	4,389,458	4,425,271	5p15.33	5p15.33
LU18_AD	11	5	5	4,425,271	4,389,458	5p15.33	5p15.33
LU18_L	26	5	5	4,435,385	2,729,989	5p15.33	5p15.33
LU18_AD	14	5	5	4,436,945	2,727,901	5p15.33	5p15.33
LU7_L	3	20	20	4,452,895	4,485,381	20p13	20p13
LU7_L	3	20	20	4,485,381	4,452,895	20p13	20p13
LU18_AD	35	11	5	4,513,664	19,870,748	11p15.4	5p14.3
LU18_L	38	11	5	4,514,363	19,870,009	11p15.4	5p14.3
LU14_L	3	5	25	4,519,848	2,438,234	5p15.32	25
LU14_AD	24	5	1	4,521,840	144,965,042	5p15.32	1q21.1
LU14_AD	43	5	1	4,522,098	144,689,265	5p15.32	1q21.1
LU14_L	11	5	1	4,522,777	144,964,958	5p15.32	1q21.1
LU14_L	31	5	1	4,523,015	144,689,520	5p15.32	1q21.1
LU14_AD	4	5	25	4,523,792	969,640	5p15.32	25
LU18_L	68	11	11	4,525,068	30,744,514	11p15.4	11p14.1
LU18_AD	107	11	11	4,527,626	30,741,184	11p15.4	11p14.1
LU18_L	5	11	12	4,530,266	73,387,926	11p15.4	12q21.1
LU18_AD	4	11	7	4,530,546	16,519,573	11p15.4	7p21.1
LU18_L	4	11	7	4,531,374	16,520,255	11p15.4	7p21.1
LU14_L	32	5	1	4,532,365	145,062,086	5p15.32	1q21.1
LU14_AD	16	5	1	4,532,761	145,062,116	5p15.32	1q21.1
LU14_AD	24	5	1	4,532,766	145,065,327	5p15.32	1q21.1
LU14_AD	7	5	1	4,537,275	144,825,492	5p15.32	1q21.1
LU3_AD	3	2	2	4,549,040	4,581,332	2p25.2	2p25.2
LU3_AD	3	2	2	4,581,332	4,549,040	2p25.2	2p25.2
LU6_AD	8	1	1	4,616,031	5,244,550	1p36.32	1p36.32
LU6_L	3	1	1	4,616,166	5,245,962	1p36.32	1p36.32
LU21_AD	6	7	7	4,640,434	35,913,697	7p22.1	7p14.2
LU4_AD	5	18	6	4,683,590	84,155,026	18p11.31	6q14.2
LU4_L	4	3	3	4,738,588	4,769,880	3p26.1	3p26.1
LU21_L	7	5	5	4,755,839	52,949,889	5p15.32	5q11.2
LU7_AD	6	7	12	4,756,196	65,092,345	7p22.1	12q14.2
LU7_L	7	7	12	4,756,431	65,092,105	7p22.1	12q14.2
LU4_L	4	18	18	4,764,731	5,656,148	18p11.31	18p11.31
LU4_L	4	3	3	4,769,880	4,738,588	3p26.1	3p26.1
LU18_AD	5	5	12	4,783,868	71,295,902	5p15.32	12q15
LU18_AD	6	5	12	4,784,833	64,268,838	5p15.32	12q14.2

LU20_AD	4	6	6	4,796,553	4,829,543	6p25.1	6p25.1
LU20_AD	4	6	6	4,829,543	4,796,553	6p25.1	6p25.1
LU4_AD	3	3	3	4,829,984	4,862,324	3p26.1	3p26.1
LU16_L	10	20	20	4,860,399	5,120,151	20p13	20p12.3
LU16_AD	14	20	20	4,861,984	5,120,280	20p13	20p12.3
LU4_AD	3	3	3	4,862,324	4,829,984	3p26.1	3p26.1
LU16_L	9	20	25	4,863,273	1,604,958	20p13	25
LU16_AD	8	20	25	4,864,836	1,603,342	20p13	25
LU18_AD	9	6	6	4,882,339	1,148,879	6p25.1	6p25.3
LU18_L	21	6	6	4,882,818	1,148,107	6p25.1	6p25.3
LU18_AD	20	5	5	4,884,036	994,099	5p15.32	5p15.33
LU18_L	15	5	5	4,884,130	992,986	5p15.32	5p15.33
LU18_AD	67	5	1	4,896,130	142,839,597	5p15.32	1q21.1
LU18_AD	7	5	1	4,896,700	143,390,096	5p15.32	1q21.1
LU18_L	78	5	1	4,898,055	142,838,272	5p15.32	1q21.1
LU18_L	8	5	25	4,898,529	1,701,107	5p15.32	25
LU18_L	9	5	1	4,899,368	143,390,092	5p15.32	1q21.1
LU18_AD	3	9	2	4,944,438	201,928,656	9p24.1	2q33.1
LU8_L	5	7	7	4,952,602	5,148,462	7p22.1	7p22.1
LU16_AD	9	5	7	4,959,208	29,656,928	5p15.32	7p14.3
LU16_L	8	5	7	4,968,824	29,651,313	5p15.32	7p14.3
LU7_L	3	7	7	4,989,897	25,121,011	7p22.1	7p15.3
LU18_L	6	5	12	4,990,342	67,018,029	5p15.32	12q14.3
LU18_AD	11	5	12	4,990,573	67,017,662	5p15.32	12q14.3
LU12_AD	3	11	11	5,016,820	5,052,964	11p15.4	11p15.4
LU12_AD	3	11	11	5,052,964	5,016,820	11p15.4	11p15.4
LU21_AD	3	18	1	5,085,905	87,271,712	18p11.31	1p22.3
LU20_L	3	10	11	5,094,717	42,901,704	10p15.1	11p12
LU8_L	3	9	1	5,096,353	238,104,233	9p24.1	1q43
LU11_AD	12	18	18	5,096,416	1,510,047	18p11.31	18p11.32
LU20_AD	3	10	1	5,097,194	119,719,571	10p15.1	1p12
LU4_AD	4	10	13	5,097,959	27,791,002	10p15.1	13q12.13
LU16_L	10	20	20	5,120,151	4,860,399	20p12.3	20p13
LU16_AD	14	20	20	5,120,280	4,861,984	20p12.3	20p13
LU18_L	3	2	12	5,141,404	68,166,171	2p25.2	12q15
LU8_L	5	7	7	5,148,462	4,952,602	7p22.1	7p22.1
LU18_L	3	19	10	5,157,487	22,433,806	19p13.3	10p12.31
LU21_L	3	16	16	5,164,061	847,884	16p13.3	16p13.3
LU4_AD	3	19	11	5,164,137	110,267,837	19p13.3	11q22.3
LU14_AD	17	5	1	5,171,365	145,143,543	5p15.32	1q21.1
LU14_AD	20	5	1	5,171,495	120,673,427	5p15.32	1p11.2
LU14_L	13	5	1	5,173,032	120,672,931	5p15.32	1p11.2
LU20_AD	3	18	18	5,180,233	5,213,888	18p11.31	18p11.31
LU11_AD	3	16	8	5,184,480	12,354,388	16p13.3	8p23.1

LU12_L	22	8	8	5,199,396	59,819,840	8p23.2	8q12.1
LU12_L	12	8	8	5,202,803	24,661,430	8p23.2	8p21.2
LU12_L	14	8	8	5,202,949	20,445,825	8p23.2	8p21.3
LU11_AD	28	18	18	5,204,385	1,022,900	18p11.31	18p11.32
LU14_L	26	5	1	5,204,523	145,087,089	5p15.32	1q21.1
LU14_AD	28	5	1	5,205,543	145,086,879	5p15.32	1q21.1
LU12_L	26	8	8	5,205,741	128,614,772	8p23.2	8q24.21
LU20_AD	3	18	18	5,213,888	5,180,233	18p11.31	18p11.31
LU11_AD	12	18	18	5,217,343	5,410,453	18p11.31	18p11.31
LU6_AD	8	1	1	5,244,550	4,616,031	1p36.32	1p36.32
LU6_L	3	1	1	5,245,962	4,616,166	1p36.32	1p36.32
LU12_L	7	17	17	5,254,565	29,613,705	17p13.2	17q11.2
LU12_L	4	16	4	5,259,210	4,115,879	16p13.3	4p16.3
LU3_L	3	20	6	5,280,563	165,873,195	20p12.3	6q27
LU11_AD	7	18	18	5,328,689	1,332,773	18p11.31	18p11.32
LU20_AD	3	5	3	5,374,711	183,960,344	5p15.32	3q27.1
LU16_AD	12	20	20	5,393,800	9,370,288	20p12.3	20p12.2
LU16_L	12	20	20	5,394,426	9,370,912	20p12.3	20p12.2
LU11_AD	12	18	18	5,410,453	5,217,343	18p11.31	18p11.31
LU14_L	3	5	5	5,428,454	5,478,678	5p15.32	5p15.32
LU14_L	3	5	5	5,478,678	5,428,454	5p15.32	5p15.32
LU21_AD	3	16	16	5,486,888	5,517,494	16p13.3	16p13.3
LU21_AD	3	16	16	5,517,494	5,486,888	16p13.3	16p13.3
LU3_L	3	3	3	5,531,492	5,565,365	3p26.1	3p26.1
LU3_L	3	3	3	5,565,365	5,531,492	3p26.1	3p26.1
LU11_AD	7	8	2	5,580,389	171,005,635	8p23.2	2q31.1
LU18_AD	6	11	12	5,595,619	73,385,458	11p15.4	12q21.1
LU18_L	3	11	7	5,603,699	14,916,289	11p15.4	7p21.2
LU4_L	4	18	18	5,656,148	4,764,731	18p11.31	18p11.31
LU14_L	4	12	12	5,680,849	5,736,073	12p13.31	12p13.31
LU14_L	4	12	12	5,736,073	5,680,849	12p13.31	12p13.31
LU7_L	4	7	12	5,748,915	58,669,543	7p22.1	12q14.1
LU4_AD	7	7	7	5,751,300	3,597,635	7p22.1	7p22.2
LU3_L	3	19	9	5,829,600	125,664,613	19p13.3	9q33.2
LU18_L	6	11	8	5,904,722	18,131,323	11p15.4	8p22
LU18_AD	4	11	8	5,904,804	18,130,838	11p15.4	8p22
LU18_L	4	11	11	5,931,877	6,901,286	11p15.4	11p15.4
LU18_AD	4	23	24	5,948,562	16,833,242	Xp22.32	Yq11.221
LU7_AD	4	7	7	5,949,976	8,736,936	7p22.1	7p21.3
LU6_L	4	6	15	5,973,660	72,499,003	6p25.1	15q23
LU18_AD	7	11	8	5,981,572	8,083,933	11p15.4	8p23.1
LU18_L	5	18	18	5,985,644	6,019,245	18p11.31	18p11.31
LU18_L	4	11	11	5,989,190	6,823,614	11p15.4	11p15.4
LU18_AD	10	11	11	5,993,456	17,029,836	11p15.4	11p15.1

LU18_L	5	11	11	5,993,548	17,029,895	11p15.4	11p15.1
LU3_AD	5	17	17	5,998,076	6,028,495	17p13.2	17p13.2
LU18_L	5	18	18	6,019,245	5,985,644	18p11.31	18p11.31
LU18_AD	3	23	24	6,028,182	16,772,112	Xp22.31	Yq11.221
LU3_AD	5	17	17	6,028,495	5,998,076	17p13.2	17p13.2
LU18_AD	5	6	8	6,063,234	75,958,368	6p25.1	8q21.11
LU7_AD	4	7	7	6,070,836	47,883,554	7p22.1	7p12.3
LU7_L	10	7	7	6,071,948	47,882,638	7p22.1	7p12.3
LU6_AD	3	11	1	6,076,676	92,821,218	11p15.4	1p22.1
LU18_AD	10	5	8	6,089,243	25,045,322	5p15.32	8p21.2
LU18_L	11	5	8	6,090,973	25,042,581	5p15.32	8p21.2
LU3_L	6	6	6	6,103,782	6,136,506	6p25.1	6p25.1
LU21_L	3	24	24	6,114,501	6,172,377	Yp11.2	Yp11.2
LU3_L	6	6	6	6,136,506	6,103,782	6p25.1	6p25.1
LU14_L	3	20	23	6,139,092	90,320,620	20p12.3	Xq21.31
LU21_L	3	24	24	6,172,377	6,114,501	Yp11.2	Yp11.2
LU18_L	6	11	11	6,177,785	93,308,177	11p15.4	11q21
LU18_L	3	11	11	6,204,018	56,616,886	11p15.4	11q12.1
LU18_AD	5	11	11	6,206,175	56,617,112	11p15.4	11q12.1
LU3_AD	3	6	6	6,230,647	6,263,931	6p25.1	6p25.1
LU11_AD	4	1	1	6,252,915	95,424,411	1p36.31	1p21.3
LU3_AD	3	6	6	6,263,931	6,230,647	6p25.1	6p25.1
LU16_AD	4	5	4	6,303,511	49,312,439	5p15.31	4p11
LU16_L	8	5	25	6,304,553	2,197,262	5p15.31	25
LU16_L	7	5	4	6,305,529	49,312,658	5p15.31	4p11
LU16_AD	12	5	25	6,305,696	2,196,943	5p15.31	25
LU16_AD	4	5	4	6,306,149	49,515,707	5p15.31	4p11
LU4_AD	5	24	23	6,401,745	90,862,132	Yp11.2	Xq21.31
LU18_L	4	3	3	6,436,630	166,223,415	3p26.1	3q26.1
LU18_AD	3	11	11	6,482,430	9,644,228	11p15.4	11p15.4
LU21_L	3	5	5	6,483,944	12,684,683	5p15.31	5p15.2
LU18_AD	4	11	8	6,503,288	8,167,459	11p15.4	8p23.1
LU18_L	4	11	8	6,504,013	8,167,283	11p15.4	8p23.1
LU18_AD	4	2	2	6,645,130	8,264,921	2p25.2	2p25.1
LU18_L	4	11	15	6,647,180	40,660,559	11p15.4	15q15.1
LU18_L	32	11	21	6,740,066	21,902,047	11p15.4	21q21.1
LU18_AD	29	11	21	6,740,199	21,900,579	11p15.4	21q21.1
LU21_L	3	17	12	6,778,881	103,058,217	17p13.1	12q23.2
LU18_AD	5	11	11	6,789,577	15,424,617	11p15.4	11p15.2
LU18_L	3	11	11	6,789,620	15,425,773	11p15.4	11p15.2
LU18_L	7	11	11	6,791,450	3,245,419	11p15.4	11p15.4
LU18_AD	3	11	11	6,792,232	3,247,140	11p15.4	11p15.4
LU18_L	6	11	11	6,815,514	3,251,286	11p15.4	11p15.4
LU18_AD	6	11	11	6,816,121	3,249,463	11p15.4	11p15.4

LU18_L	4	11	11	6,823,614	5,989,190	11p15.4	11p15.4
LU18_AD	4	11	11	6,824,764	18,392,743	11p15.4	11p15.1
LU7_L	13	7	7	6,850,151	8,738,295	7p22.1	7p21.3
LU7_AD	4	7	7	6,850,825	8,738,101	7p22.1	7p21.3
LU4_AD	5	7	7	6,869,392	79,101,113	7p22.1	7q21.11
LU3_L	3	7	8	6,875,283	12,542,349	7p22.1	8p23.1
LU20_L	3	2	2	6,901,204	6,937,167	2p25.2	2p25.2
LU18_L	4	11	11	6,901,286	5,931,877	11p15.4	11p15.4
LU18_L	3	5	15	6,907,994	21,188,592	5p15.31	15q11.2
LU18_AD	13	5	12	6,936,700	72,260,051	5p15.31	12q21.1
LU20_L	3	2	2	6,937,167	6,901,204	2p25.2	2p25.2
LU21_L	4	8	4	6,939,920	3,883,418	8p23.1	4p16.3
LU18_L	16	5	12	6,939,995	72,259,066	5p15.31	12q21.1
LU16_L	8	5	5	6,946,623	8,165,643	5p15.31	5p15.31
LU12_L	29	8	8	6,983,610	11,408,263	8p23.1	8p23.1
LU7_L	17	16	1	7,036,260	185,445,329	16p13.3	1q25.3
LU7_AD	8	16	1	7,042,190	185,446,341	16p13.3	1q25.3
LU3_L	5	7	7	7,233,189	7,263,382	7p22.1	7p22.1
LU5_L	3	5	4	7,260,207	118,174,192	5p15.31	4q26
LU3_L	5	7	7	7,263,382	7,233,189	7p22.1	7p22.1
LU7_L	3	8	8	7,265,261	128,440,461	8p23.1	8q24.21
LU18_AD	5	2	2	7,300,090	2,759,179	2p25.1	2p25.3
LU20_L	3	3	3	7,352,044	7,396,914	3p26.1	3p26.1
LU5_AD	3	8	1	7,361,164	155,601,703	8p23.1	1q22
LU3_AD	5	16	16	7,374,698	7,406,761	16p13.3	16p13.3
LU20_AD	3	2	2	7,375,219	7,409,145	2p25.1	2p25.1
LU20_L	3	3	3	7,396,914	7,352,044	3p26.1	3p26.1
LU3_AD	5	16	16	7,406,761	7,374,698	16p13.3	16p13.3
LU20_AD	3	2	2	7,409,145	7,375,219	2p25.1	2p25.1
LU20_AD	3	9	18	7,426,519	51,533,876	9p24.1	18q21.2
LU12_AD	3	18	18	7,496,513	7,527,525	18p11.23	18p11.23
LU21_L	5	5	5	7,500,750	12,624,103	5p15.31	5p15.2
LU12_AD	3	18	18	7,527,525	7,496,513	18p11.23	18p11.23
LU3_L	5	16	16	7,530,453	7,567,217	16p13.3	16p13.3
LU3_L	5	16	16	7,567,217	7,530,453	16p13.3	16p13.3
LU4_L	5	7	7	7,723,478	7,757,641	7p21.3	7p21.3
LU4_AD	13	7	7	7,750,242	3,647,248	7p21.3	7p22.2
LU4_AD	9	7	7	7,755,924	3,087,878	7p21.3	7p22.2
LU4_L	5	7	7	7,757,641	7,723,478	7p21.3	7p21.3
LU15_AD	6	9	9	7,842,218	14,435,872	9p24.1	9p22.3
LU7_L	3	6	7	7,986,993	159,024,244	6p24.3	7q36.3
LU14_AD	3	8	8	7,989,769	12,340,714	8p23.1	8p23.1
LU12_AD	3	8	4	8,027,757	104,478,374	8p23.1	4q24
LU21_AD	3	24	24	8,033,514	24,888,365	Yp11.2	Yq11.223

LU18_AD	7	8	11	8,083,933	5,981,572	8p23.1	11p15.4
LU7_AD	6	7	12	8,085,885	68,273,056	7p21.3	12q15
LU7_L	9	7	12	8,086,508	68,272,077	7p21.3	12q15
LU16_L	8	5	5	8,165,643	6,946,623	5p15.31	5p15.31
LU18_L	4	8	11	8,167,283	6,504,013	8p23.1	11p15.4
LU18_AD	4	8	11	8,167,459	6,503,288	8p23.1	11p15.4
LU6_AD	3	5	5	8,216,720	8,585,487	5p15.31	5p15.31
LU16_AD	3	23	7	8,254,909	37,174,966	Xp22.31	7p14.2
LU18_AD	4	2	2	8,264,921	6,645,130	2p25.1	2p25.2
LU20_AD	3	18	18	8,364,852	8,425,966	18p11.23	18p11.23
LU16_AD	16	9	9	8,373,985	41,942,156	9p24.1	9p12
LU16_AD	27	9	9	8,383,159	44,414,232	9p24.1	9p11.2
LU20_AD	3	18	18	8,425,966	8,364,852	18p11.23	18p11.23
LU15_AD	3	24	24	8,433,398	9,586,882	Yp11.2	Yp11.2
LU12_L	6	8	8	8,555,678	22,907,082	8p23.1	8p21.3
LU4_AD	3	12	4	8,559,786	3,883,047	12p13.31	4p16.3
LU6_AD	3	5	5	8,585,487	8,216,720	5p15.31	5p15.31
LU21_L	5	7	7	8,603,214	8,641,296	7p21.3	7p21.3
LU12_L	3	16	16	8,625,638	8,689,357	16p13.2	16p13.2
LU21_L	5	7	7	8,641,296	8,603,214	7p21.3	7p21.3
LU5_L	3	24	1	8,673,824	186,888,903	Yp11.2	1q31.1
LU12_L	3	16	16	8,689,357	8,625,638	16p13.2	16p13.2
LU6_L	3	3	4	8,716,344	9,760,694	3p25.3	4p16.1
LU4_L	4	3	4	8,716,432	4,134,397	3p25.3	4p16.3
LU18_L	3	3	4	8,728,437	4,130,246	3p25.3	4p16.3
LU7_AD	4	7	7	8,736,936	5,949,976	7p21.3	7p22.1
LU7_AD	4	7	7	8,738,101	6,850,825	7p21.3	7p22.1
LU7_L	13	7	7	8,738,295	6,850,151	7p21.3	7p22.1
LU21_AD	3	3	12	8,739,278	79,872,963	3p25.3	12q21.2
LU12_L	3	3	11	8,742,055	89,673,387	3p25.3	11q14.3
LU16_AD	30	20	7	8,850,324	18,700,228	20p12.3	7p21.1
LU16_L	22	20	7	8,850,708	18,700,769	20p12.3	7p21.1
LU18_AD	3	11	7	8,908,117	21,489,717	11p15.4	7p15.3
LU20_AD	3	12	3	8,918,716	150,574,870	12p13.31	3q25.1
LU4_AD	3	12	24	8,940,290	25,231,357	12p13.31	Yq11.223
LU12_L	36	8	8	8,946,105	41,635,000	8p23.1	8p11.21
LU3_L	3	6	6	8,964,297	8,995,282	6p24.3	6p24.3
LU18_AD	12	11	7	8,974,736	23,016,559	11p15.4	7p15.3
LU4_L	3	7	7	8,979,883	9,012,560	7p21.3	7p21.3
LU18_L	3	16	5	8,993,936	107,062,651	16p13.2	5q21.3
LU3_L	3	6	6	8,995,282	8,964,297	6p24.3	6p24.3
LU7_AD	5	7	7	8,996,322	16,050,681	7p21.3	7p21.2
LU7_L	12	7	7	8,997,765	16,050,448	7p21.3	7p21.2
LU4_L	3	7	7	9,012,560	8,979,883	7p21.3	7p21.3

LU6_L	5	20	10	9,020,551	9,590,391	20p12.3	10p14
LU4_AD	4	3	3	9,026,189	9,055,731	3p25.3	3p25.3
LU21_AD	3	2	5	9,039,237	42,111,362	2p25.1	5p13.1
LU4_AD	4	3	3	9,055,731	9,026,189	3p25.3	3p25.3
LU18_AD	3	4	4	9,101,248	4,167,116	4p16.1	4p16.3
LU18_AD	3	1	7	9,151,422	129,956,778	1p36.23	7q32.2
LU15_L	3	24	24	9,153,922	24,557,763	Yp11.2	Yq11.223
LU21_L	3	24	24	9,155,346	9,865,233	Yp11.2	Yp11.2
LU18_AD	5	11	8	9,245,692	13,279,322	11p15.4	8p22
LU18_L	3	11	8	9,246,344	13,279,511	11p15.4	8p22
LU12_L	18	8	8	9,280,005	19,699,420	8p23.1	8p21.3
LU12_L	9	8	8	9,282,956	38,841,279	8p23.1	8p11.22
LU18_AD	5	6	4	9,288,305	190,538,109	6p24.3	4q35.2
LU3_AD	17	1	1	9,319,332	9,399,555	1p36.22	1p36.22
LU3_L	24	1	1	9,319,728	9,398,859	1p36.22	1p36.22
LU14_AD	14	5	1	9,320,976	120,893,079	5p15.31	1p11.2
LU14_L	5	5	1	9,321,852	120,892,978	5p15.31	1p11.2
LU4_AD	5	3	23	9,370,196	136,297,640	3p25.3	Xq26.3
LU16_AD	12	20	20	9,370,288	5,393,800	20p12.2	20p12.3
LU16_L	12	20	20	9,370,912	5,394,426	20p12.2	20p12.3
LU6_L	3	24	24	9,393,088	9,740,176	Yp11.2	Yp11.2
LU3_L	24	1	1	9,398,859	9,319,728	1p36.22	1p36.22
LU3_AD	17	1	1	9,399,555	9,319,332	1p36.22	1p36.22
LU3_L	3	24	24	9,404,581	9,732,402	Yp11.2	Yp11.2
LU6_AD	4	1	1	9,438,179	13,351,642	1p36.22	1p36.21
LU16_L	3	4	7	9,455,426	97,582,299	4p16.1	7q21.3
LU5_L	3	12	12	9,472,134	11,651,388	12p13.31	12p13.2
LU21_AD	3	21	15	9,479,778	20,100,707	21p11.2	15q11.1
LU14_L	3	23	23	9,502,302	9,537,182	Xp22.2	Xp22.2
LU6_AD	14	20	8	9,511,629	137,373,527	20p12.2	8q24.23
LU11_AD	3	4	9	9,512,034	93,517,987	4p16.1	9q22.2
LU6_L	12	20	8	9,513,117	137,374,676	20p12.2	8q24.23
LU18_L	8	7	12	9,529,254	76,608,296	7p21.3	12q21.2
LU18_AD	13	7	12	9,529,537	76,606,823	7p21.3	12q21.2
LU16_L	4	3	7	9,534,211	127,901,325	3p25.3	7q32.1
LU14_L	3	23	23	9,537,182	9,502,302	Xp22.2	Xp22.2
LU15_AD	3	24	24	9,586,882	8,433,398	Yp11.2	Yp11.2
LU6_L	5	10	20	9,590,391	9,020,551	10p14	20p12.3
LU18_AD	3	11	11	9,644,228	6,482,430	11p15.4	11p15.4
LU7_AD	3	4	11	9,647,158	67,608,174	4p16.1	11q13.2
LU8_L	3	4	1	9,664,702	166,578,717	4p16.1	1q24.1
LU5_L	5	12	7	9,719,610	149,729,870	12p13.31	7q36.1
LU3_L	3	24	24	9,732,402	9,404,581	Yp11.2	Yp11.2
LU6_L	3	24	24	9,740,176	9,393,088	Yp11.2	Yp11.2

LU11_AD	3	19	4	9,750,067	137,533,940	19p13.2	4q28.3
LU8_L	3	4	2	9,752,045	71,238,738	4p16.1	2p13.3
LU6_L	3	4	3	9,760,694	8,716,344	4p16.1	3p25.3
LU6_L	3	6	6	9,792,597	9,826,161	6p24.3	6p24.3
LU3_L	4	19	15	9,823,125	89,772,149	19p13.2	15q26.1
LU4_AD	3	19	5	9,824,058	86,806,724	19p13.2	5q14.3
LU5_L	3	19	12	9,825,325	52,127,596	19p13.2	12q13.13
LU6_L	3	6	6	9,826,161	9,792,597	6p24.3	6p24.3
LU16_AD	18	21	14	9,827,915	48,235,362	21p11.2	14q21.3
LU18_L	4	21	5	9,829,462	2,640,271	21p11.2	5p15.33
LU20_AD	4	19	3	9,837,654	79,826,839	19p13.2	3p12.2
LU3_L	3	21	4	9,864,184	130,055,821	21p11.2	4q28.2
LU21_L	3	24	24	9,865,233	9,155,346	Yp11.2	Yp11.2
LU18_AD	11	7	11	9,892,357	18,059,629	7p21.3	11p15.1
LU18_L	17	7	11	9,895,413	18,059,435	7p21.3	11p15.1
LU12_AD	6	21	15	9,915,740	98,619,945	21p11.2	15q26.3
LU18_L	6	7	11	10,035,910	29,821,503	7p21.3	11p14.1
LU18_L	3	2	1	10,070,063	89,693,029	2p25.1	1p22.2
LU12_AD	3	16	16	10,085,182	10,135,686	16p13.2	16p13.2
LU12_L	5	21	16	10,096,033	47,916,652	21p11.2	16q12.1
LU12_AD	3	16	16	10,135,686	10,085,182	16p13.2	16p13.2
LU15_AD	3	16	16	10,135,829	10,173,130	16p13.2	16p13.2
LU20_AD	4	21	2	10,137,939	34,142,498	21p11.2	2p22.3
LU21_L	4	21	12	10,140,630	105,701,821	21p11.2	12q23.3
LU18_AD	3	21	4	10,144,358	102,824,039	21p11.2	4q24
LU15_AD	3	16	16	10,173,130	10,135,829	16p13.2	16p13.2
LU3_L	5	18	5	10,216,442	114,373,650	18p11.22	5q22.3
LU18_AD	5	5	8	10,278,518	17,605,438	5p15.2	8p22
LU18_L	6	5	8	10,278,568	17,605,255	5p15.2	8p22
LU5_AD	4	10	1	10,331,587	48,905,454	10p14	1p33
LU3_AD	3	20	20	10,344,711	10,387,342	20p12.2	20p12.2
LU3_AD	3	20	20	10,387,342	10,344,711	20p12.2	20p12.2
LU18_L	3	7	7	10,409,039	10,452,525	7p21.3	7p21.3
LU12_L	3	8	3	10,430,650	125,585,319	8p23.1	3q21.2
LU21_L	5	16	9	10,440,186	12,775,612	16p13.2	9p23
LU18_L	3	7	7	10,452,525	10,409,039	7p21.3	7p21.3
LU5_AD	3	3	3	10,455,709	10,512,820	3p25.3	3p25.3
LU5_AD	3	3	3	10,512,820	10,455,709	3p25.3	3p25.3
LU11_AD	3	12	6	10,518,836	161,212,810	12p13.2	6q26
LU16_L	3	11	3	10,529,558	96,336,024	11p15.4	3q11.2
LU18_AD	5	11	11	10,546,017	17,903,031	11p15.4	11p15.1
LU18_L	12	11	11	10,548,340	17,902,846	11p15.4	11p15.1
LU18_AD	6	7	12	10,603,140	75,447,147	7p21.3	12q21.1
LU18_L	6	7	5	10,603,810	16,195,920	7p21.3	5p15.1

LU18_AD	13	7	5	10,603,812	16,195,717	7p21.3	5p15.1
LU18_L	5	7	5	10,636,875	15,408,669	7p21.3	5p15.1
LU18_AD	10	7	5	10,639,389	15,408,844	7p21.3	5p15.1
LU4_AD	4	5	11	10,650,362	48,989,828	5p15.2	11p11.12
LU18_AD	4	7	11	10,662,845	22,928,093	7p21.3	11p14.3
LU3_L	3	8	8	10,723,303	10,755,550	8p23.1	8p23.1
LU3_L	3	8	8	10,755,550	10,723,303	8p23.1	8p23.1
LU18_AD	3	7	11	10,760,059	22,895,112	7p21.3	11p14.3
LU18_AD	3	7	5	10,762,046	21,666,747	7p21.3	5p14.3
LU18_L	3	16	8	10,793,686	12,565,296	16p13.13	8p23.1
LU20_L	3	16	16	10,796,671	18,577,547	16p13.13	16p12.3
LU8_L	3	20	20	10,804,275	10,833,871	20p12.2	20p12.2
LU8_L	3	20	20	10,833,871	10,804,275	20p12.2	20p12.2
LU4_AD	7	7	23	10,978,318	86,037,384	7p21.3	Xq21.2
LU18_AD	14	5	12	11,009,899	67,414,820	5p15.2	12q14.3
LU4_AD	5	20	20	11,063,665	11,094,007	20p12.2	20p12.2
LU4_AD	5	20	20	11,094,007	11,063,665	20p12.2	20p12.2
LU18_AD	10	5	25	11,160,180	1,651,866	5p15.2	25
LU18_L	8	5	25	11,160,930	1,651,821	5p15.2	25
LU21_AD	9	17	17	11,163,177	20,844,856	17p12	17p11.2
LU21_L	5	17	17	11,163,405	20,844,656	17p12	17p11.2
LU18_AD	4	5	15	11,163,531	21,157,170	5p15.2	15q11.2
LU18_L	6	5	15	11,164,093	21,157,784	5p15.2	15q11.2
LU16_AD	34	7	5	11,220,305	716,442	7p21.3	5p15.33
LU16_AD	5	7	5	11,220,508	801,515	7p21.3	5p15.33
LU16_L	15	7	5	11,221,089	716,988	7p21.3	5p15.33
LU21_L	11	5	5	11,239,452	50,920,653	5p15.2	5q11.2
LU16_AD	60	7	5	11,335,694	1,732,585	7p21.3	5p15.33
LU16_L	9	7	5	11,338,142	1,732,844	7p21.3	5p15.33
LU12_L	7	8	3	11,407,532	75,585,360	8p23.1	3p12.3
LU12_L	29	8	8	11,408,263	6,983,610	8p23.1	8p23.1
LU21_L	3	18	20	11,442,744	34,447,733	18p11.21	20q11.23
LU21_L	6	18	20	11,457,327	36,019,402	18p11.21	20q11.23
LU5_L	4	7	7	11,465,437	11,497,759	7p21.3	7p21.3
LU21_L	3	11	11	11,477,680	11,508,086	11p15.3	11p15.3
LU5_L	4	7	7	11,497,759	11,465,437	7p21.3	7p21.3
LU21_L	3	11	11	11,508,086	11,477,680	11p15.3	11p15.3
LU5_L	3	12	12	11,651,388	9,472,134	12p13.2	12p13.31
LU11_AD	6	4	4	11,682,470	33,978,685	4p15.33	4p15.1
LU3_AD	4	19	19	11,716,386	52,710,695	19p13.2	19q13.41
LU16_AD	3	6	6	11,717,521	11,759,540	6p24.1	6p24.1
LU4_AD	3	10	15	11,725,971	43,347,705	10p14	15q15.2
LU16_AD	3	6	6	11,759,540	11,717,521	6p24.1	6p24.1
LU12_AD	3	8	1	11,775,157	247,284,392	8p23.1	1q44

LU11_AD	8	16	16	11,779,500	49,942,212	16p13.13	16q12.1
LU18_L	3	8	13	11,782,530	68,480,528	8p23.1	13q21.32
LU14_L	3	6	6	11,845,029	11,892,885	6p24.1	6p24.1
LU11_AD	3	8	11	11,866,809	3,596,434	8p23.1	11p15.4
LU14_L	3	6	6	11,892,885	11,845,029	6p24.1	6p24.1
LU16_AD	3	8	3	11,990,438	129,829,343	8p23.1	3q22.1
LU11_AD	3	8	8	11,990,454	12,049,547	8p23.1	8p23.1
LU18_L	6	19	6	11,991,153	85,677,918	19p13.2	6q14.3
LU11_AD	3	8	8	12,049,547	11,990,454	8p23.1	8p23.1
LU20_AD	3	3	3	12,065,208	12,104,080	3p25.2	3p25.2
LU5_AD	23	7	7	12,085,260	12,128,987	7p21.3	7p21.3
LU5_L	21	7	7	12,085,860	12,128,586	7p21.3	7p21.3
LU20_AD	3	3	3	12,104,080	12,065,208	3p25.2	3p25.2
LU5_L	21	7	7	12,128,586	12,085,860	7p21.3	7p21.3
LU5_AD	23	7	7	12,128,987	12,085,260	7p21.3	7p21.3
LU3_AD	3	20	20	12,153,666	12,186,168	20p12.1	20p12.1
LU3_AD	3	20	20	12,186,168	12,153,666	20p12.1	20p12.1
LU16_AD	17	9	7	12,202,921	34,546,308	9p23	7p14.3
LU16_AD	5	9	9	12,289,989	46,709,995	9p23	9p11.2
LU3_AD	3	17	17	12,315,413	12,349,101	17p12	17p12
LU14_AD	3	8	8	12,340,714	7,989,769	8p23.1	8p23.1
LU12_L	13	8	8	12,346,884	17,177,858	8p23.1	8p22
LU3_AD	3	17	17	12,349,101	12,315,413	17p12	17p12
LU11_AD	3	8	16	12,354,388	5,184,480	8p23.1	16p13.3
LU12_L	3	4	1	12,428,673	91,669,445	4p15.33	1p22.2
LU12_AD	10	1	20	12,473,414	35,628,396	1p36.22	20q11.23
LU18_L	3	8	25	12,510,836	2,008,235	8p23.1	25
LU3_L	3	8	7	12,542,349	6,875,283	8p23.1	7p22.1
LU18_L	3	8	16	12,565,296	10,793,686	8p23.1	16p13.13
LU4_AD	10	7	7	12,565,500	35,675,781	7p21.3	7p14.2
LU5_AD	5	8	1	12,574,674	247,285,957	8p23.1	1q44
LU12_L	21	8	8	12,595,431	40,284,330	8p23.1	8p11.21
LU16_AD	6	7	7	12,595,657	17,599,985	7p21.3	7p21.1
LU16_AD	6	7	7	12,601,371	12,697,814	7p21.3	7p21.3
LU4_AD	4	7	23	12,609,099	3,052,483	7p21.3	Xp22.33
LU21_L	5	5	5	12,624,103	7,500,750	5p15.2	5p15.31
LU21_L	7	5	5	12,626,319	13,992,512	5p15.2	5p15.2
LU14_AD	3	7	10	12,629,328	73,714,512	7p21.3	10q22.1
LU4_AD	4	11	4	12,635,201	174,699,234	11p15.3	4q34.1
LU18_AD	3	6	8	12,668,476	146,184,261	6p24.1	8q24.3
LU21_L	5	5	5	12,675,224	51,798,360	5p15.2	5q11.2
LU21_L	3	5	5	12,684,683	6,483,944	5p15.2	5p15.31
LU7_L	3	7	7	12,695,033	19,255,399	7p21.3	7p21.1
LU7_AD	4	7	7	12,697,185	19,253,594	7p21.3	7p21.1

LU16_AD	6	7	7	12,697,814	12,601,371	7p21.3	7p21.3
LU7_L	3	7	12	12,703,867	20,330,254	7p21.3	12p12.2
LU8_L	3	2	2	12,714,849	16,973,419	2p24.3	2p24.2
LU3_L	3	2	2	12,719,096	16,973,902	2p24.3	2p24.2
LU3_AD	5	11	11	12,753,801	12,792,022	11p15.2	11p15.2
LU21_L	5	9	16	12,775,612	10,440,186	9p23	16p13.2
LU3_AD	5	11	11	12,792,022	12,753,801	11p15.2	11p15.2
LU4_AD	3	1	1	12,840,988	160,668,310	1p36.21	1q23.3
LU21_AD	3	5	5	13,001,563	13,034,318	5p15.2	5p15.2
LU21_AD	3	5	5	13,034,318	13,001,563	5p15.2	5p15.2
LU18_AD	3	4	4	13,116,109	13,164,355	4p15.33	4p15.33
LU18_AD	3	4	4	13,164,355	13,116,109	4p15.33	4p15.33
LU4_L	3	23	23	13,266,951	13,296,783	Xp22.2	Xp22.2
LU18_L	4	24	9	13,269,870	43,140,344	Yq11.1	9p12
LU18_AD	5	8	11	13,279,322	9,245,692	8p22	11p15.4
LU18_L	3	8	11	13,279,511	9,246,344	8p22	11p15.4
LU3_L	4	24	9	13,282,103	83,465,388	Yq11.1	9q21.31
LU4_L	3	23	23	13,296,783	13,266,951	Xp22.2	Xp22.2
LU18_AD	4	8	11	13,302,529	16,990,970	8p22	11p15.1
LU20_L	3	24	9	13,324,091	67,926,726	Yq11.1	9q13
LU3_L	3	24	2	13,340,635	132,833,612	Yq11.1	2q21.2
LU6_AD	4	1	1	13,351,642	9,438,179	1p36.21	1p36.22
LU4_AD	4	7	7	13,373,808	13,406,896	7p21.3	7p21.3
LU4_AD	4	7	7	13,406,896	13,373,808	7p21.3	7p21.3
LU18_AD	4	5	5	13,406,969	18,245,128	5p15.2	5p15.1
LU18_L	4	12	5	13,417,373	18,536,665	12p13.1	5p14.3
LU20_L	3	1	13	13,433,187	51,733,452	1p36.21	13q14.3
LU20_L	3	11	12	13,441,045	53,144,619	11p15.2	12q13.13
LU16_AD	39	7	5	13,493,241	1,727,588	7p21.3	5p15.33
LU18_L	4	11	12	13,494,896	70,533,010	11p15.2	12q15
LU16_L	7	7	5	13,498,507	1,723,953	7p21.3	5p15.33
LU20_L	3	18	18	13,530,465	13,560,800	18p11.21	18p11.21
LU20_L	3	18	18	13,560,800	13,530,465	18p11.21	18p11.21
LU18_L	4	5	25	13,561,071	2,320,702	5p15.2	25
LU16_AD	3	6	6	13,600,357	16,950,271	6p23	6p22.3
LU14_L	4	24	17	13,637,183	25,289,604	Yq11.21	17q11.1
LU18_L	3	4	4	13,708,486	13,739,887	4p15.33	4p15.33
LU18_L	3	4	4	13,739,887	13,708,486	4p15.33	4p15.33
LU16_AD	8	18	15	13,797,657	37,281,951	18p11.21	15q14
LU21_L	11	5	5	13,801,629	7,517,666	5p15.2	5p15.31
LU3_L	3	20	23	13,932,591	124,700,471	20p12.1	Xq25
LU21_L	7	5	5	13,992,512	12,626,319	5p15.2	5p15.2
LU21_L	7	5	5	13,997,705	51,736,688	5p15.2	5q11.2
LU4_AD	6	7	7	14,067,271	33,705,262	7p21.2	7p14.3

LU12_L	13	8	8	14,083,327	17,776,652	8p22	8p22
LU16_AD	5	17	5	14,084,482	96,094,682	17p12	5q15
LU8_L	4	18	4	14,123,187	127,335	18p11.21	4p16.3
LU6_L	5	20	20	14,127,812	17,095,287	20p12.1	20p12.1
LU18_L	4	17	17	14,140,026	20,482,628	17p12	17p11.2
LU20_AD	3	7	7	14,149,467	14,179,535	7p21.2	7p21.2
LU21_L	3	18	16	14,173,303	33,515,639	18p11.21	16p11.2
LU20_AD	3	7	7	14,179,535	14,149,467	7p21.2	7p21.2
LU3_AD	3	3	3	14,237,988	14,269,913	3p25.1	3p25.1
LU3_AD	3	3	3	14,269,913	14,237,988	3p25.1	3p25.1
LU18_L	3	8	14	14,306,559	19,392,906	8p22	14q11.2
LU18_AD	3	18	8	14,380,030	73,932,898	18p11.21	8q21.11
LU3_L	5	6	12	14,387,555	3,746,597	6p23	12p13.32
LU15_AD	6	9	9	14,435,872	7,842,218	9p22.3	9p24.1
LU20_L	3	18	21	14,476,084	18,939,570	18p11.21	21q21.1
LU3_L	4	4	4	14,512,737	14,548,850	4p15.33	4p15.33
LU3_L	4	1	1	14,516,230	14,568,193	1p36.21	1p36.21
LU3_L	4	4	4	14,548,850	14,512,737	4p15.33	4p15.33
LU3_L	4	1	1	14,568,193	14,516,230	1p36.21	1p36.21
LU6_L	6	9	2	14,605,064	165,976,047	9p22.3	2q24.3
LU12_L	17	8	8	14,618,879	18,162,549	8p22	8p22
LU12_L	5	12	11	14,637,444	55,813,653	12p13.1	11q12.1
LU18_L	5	5	12	14,769,991	70,363,345	5p15.2	12q15
LU18_AD	3	5	12	14,770,255	70,363,125	5p15.2	12q15
LU7_L	5	7	7	14,794,434	15,021,103	7p21.2	7p21.2
LU3_L	4	21	14	14,816,008	20,637,233	21q11.2	14q11.2
LU18_AD	5	11	22	14,822,455	22,306,854	11p15.2	22q11.22
LU18_L	5	7	11	14,913,978	30,750,995	7p21.2	11p14.1
LU18_L	3	7	11	14,916,289	5,603,699	7p21.2	11p15.4
LU18_AD	3	16	5	14,919,622	98,529,711	16p13.11	5q21.1
LU7_L	3	9	8	14,966,969	108,585,374	9p22.3	8q23.1
LU20_L	4	2	2	14,975,395	15,017,027	2p24.3	2p24.3
LU3_AD	3	4	4	14,978,206	15,007,789	4p15.33	4p15.33
LU18_L	3	21	14	14,995,327	19,568,071	21q11.2	14q11.2
LU20_L	3	16	16	15,002,783	70,044,595	16p13.11	16q22.1
LU16_AD	34	20	20	15,002,856	14,893,627	20p12.1	20p12.1
LU16_L	23	20	20	15,003,097	14,893,724	20p12.1	20p12.1
LU8_L	3	16	16	15,007,620	70,045,083	16p13.11	16q22.1
LU3_AD	3	4	4	15,007,789	14,978,206	4p15.33	4p15.33
LU20_L	4	2	2	15,017,027	14,975,395	2p24.3	2p24.3
LU12_L	34	8	8	15,018,600	39,582,797	8p22	8p11.22
LU7_L	5	7	7	15,021,103	14,794,434	7p21.2	7p21.2
LU4_AD	3	1	1	15,105,360	15,144,150	1p36.21	1p36.21
LU4_AD	3	1	1	15,144,150	15,105,360	1p36.21	1p36.21

LU16_AD	3	18	10	15,198,597	38,892,850	18p11.21	10p11.1
LU7_L	3	19	12	15,250,316	65,661,516	19p13.12	12q14.3
LU6_L	6	16	5	15,272,833	18,895,614	16p13.11	5p14.3
LU6_L	4	16	2	15,274,376	27,934,825	16p13.11	2p23.2
LU6_L	3	16	2	15,283,405	25,840,735	16p13.11	2p23.3
LU8_AD	5	17	17	15,329,706	15,361,639	17p12	17p12
LU8_AD	5	17	17	15,361,639	15,329,706	17p12	17p12
LU18_L	5	5	7	15,408,669	10,636,875	5p15.1	7p21.3
LU18_AD	10	5	7	15,408,844	10,639,389	5p15.1	7p21.3
LU18_AD	8	5	7	15,423,489	21,498,170	5p15.1	7p15.3
LU18_AD	5	11	11	15,424,617	6,789,577	11p15.2	11p15.4
LU18_L	3	11	11	15,425,773	6,789,620	11p15.2	11p15.4
LU8_L	3	21	10	15,429,244	42,726,484	21q11.2	10q11.21
LU18_AD	5	5	8	15,538,639	25,933,239	5p15.1	8p21.2
LU12_AD	3	17	5	15,687,689	55,265,407	17p12	5q11.2
LU16_AD	32	7	7	15,749,119	46,079,970	7p21.2	7p12.3
LU16_AD	5	7	5	15,749,341	1,797,157	7p21.2	5p15.33
LU16_L	6	7	7	15,749,588	46,079,925	7p21.2	7p12.3
LU7_AD	3	19	19	15,760,600	16,102,917	19p13.12	19p13.12
LU16_AD	75	7	5	15,770,672	3,022,173	7p21.2	5p15.33
LU16_L	13	7	5	15,770,932	3,022,637	7p21.2	5p15.33
LU5_AD	3	20	20	15,789,297	15,823,395	20p12.1	20p12.1
LU5_AD	3	20	20	15,823,395	15,789,297	20p12.1	20p12.1
LU18_AD	4	5	15	15,824,709	21,143,433	5p15.1	15q11.2
LU18_L	3	11	11	15,888,078	15,918,747	11p15.2	11p15.2
LU18_L	3	11	11	15,918,747	15,888,078	11p15.2	11p15.2
LU3_L	3	5	5	15,939,916	15,973,500	5p15.1	5p15.1
LU18_L	4	20	1	15,960,954	171,571,646	20p12.1	1q24.3
LU3_L	3	5	5	15,973,500	15,939,916	5p15.1	5p15.1
LU21_L	3	19	19	15,986,752	16,053,828	19p13.12	19p13.12
LU16_AD	3	9	9	15,999,498	41,942,816	9p22.3	9p12
LU3_L	4	24	1	16,004,217	175,068,466	Yq11.221	1q25.1
LU21_L	3	24	10	16,008,622	37,564,937	Yq11.221	10p11.21
LU7_L	4	7	7	16,045,939	2,602,033	7p21.2	7p22.3
LU7_L	12	7	7	16,050,448	8,997,765	7p21.2	7p21.3
LU7_AD	5	7	7	16,050,681	8,996,322	7p21.2	7p21.3
LU21_L	3	19	19	16,053,828	15,986,752	19p13.12	19p13.12
LU7_AD	3	19	19	16,102,917	15,760,600	19p13.12	19p13.12
LU3_L	3	20	20	16,109,313	16,142,282	20p12.1	20p12.1
LU21_L	3	11	11	16,112,573	16,144,338	11p15.2	11p15.2
LU21_L	3	21	16	16,127,660	57,499,816	21q11.2	16q21
LU3_L	3	20	20	16,142,282	16,109,313	20p12.1	20p12.1
LU21_L	3	11	11	16,144,338	16,112,573	11p15.2	11p15.2
LU18_L	5	5	5	16,148,849	34,104,209	5p15.1	5p13.2

LU18_AD	20	5	12	16,155,208	70,367,670	5p15.1	12q15
LU18_L	19	5	12	16,155,324	70,367,310	5p15.1	12q15
LU18_L	13	5	8	16,169,472	3,952,442	5p15.1	8p23.2
LU18_AD	17	5	8	16,169,668	3,952,589	5p15.1	8p23.2
LU12_L	19	8	8	16,190,529	17,118,698	8p22	8p22
LU18_AD	13	5	7	16,195,717	10,603,812	5p15.1	7p21.3
LU18_L	6	5	7	16,195,920	10,603,810	5p15.1	7p21.3
LU18_L	3	22	13	16,204,700	19,171,368	22q11.1	13q11
LU3_L	5	9	9	16,211,476	16,243,246	9p22.3	9p22.3
LU18_L	41	5	5	16,226,889	20,778,032	5p15.1	5p14.3
LU18_AD	31	5	5	16,226,898	20,778,524	5p15.1	5p14.3
LU3_L	5	9	9	16,243,246	16,211,476	9p22.3	9p22.3
LU16_L	4	21	9	16,250,584	33,051,774	21q11.2	9p21.1
LU18_AD	5	7	11	16,264,386	16,995,607	7p21.2	11p15.1
LU21_AD	4	24	8	16,273,074	87,941,013	Yq11.221	8q21.3
LU3_L	4	22	14	16,287,533	19,986,715	22q11.1	14q11.2
LU3_AD	5	22	14	16,289,218	19,985,022	22q11.1	14q11.2
LU6_L	6	16	2	16,307,037	28,594,188	16p13.11	2p23.2
LU18_L	32	5	11	16,373,825	19,636,698	5p15.1	11p15.1
LU18_AD	31	5	11	16,375,429	19,634,856	5p15.1	11p15.1
LU18_L	3	3	3	16,392,887	16,454,059	3p24.3	3p24.3
LU18_L	29	7	21	16,398,586	24,881,835	7p21.2	21q21.2
LU18_AD	22	7	21	16,399,306	24,881,272	7p21.2	21q21.2
LU11_AD	10	6	6	16,425,134	52,963,528	6p22.3	6p12.1
LU20_AD	4	1	5	16,430,454	34,783,039	1p36.13	5p13.2
LU12_AD	3	1	10	16,432,667	132,091,204	1p36.13	10q26.3
LU4_AD	4	1	8	16,432,800	49,877,071	1p36.13	8q11.21
LU18_L	3	3	3	16,454,059	16,392,887	3p24.3	3p24.3
LU18_AD	14	5	11	16,468,643	29,696,076	5p15.1	11p14.1
LU18_L	17	5	11	16,469,266	29,695,938	5p15.1	11p14.1
LU8_AD	3	5	5	16,496,842	16,529,445	5p15.1	5p15.1
LU21_L	5	3	3	16,506,525	16,537,992	3p24.3	3p24.3
LU16_AD	4	7	5	16,516,173	1,738,863	7p21.1	5p15.33
LU18_AD	4	7	11	16,519,573	4,530,546	7p21.1	11p15.4
LU18_L	4	7	11	16,520,255	4,531,374	7p21.1	11p15.4
LU8_AD	3	5	5	16,529,445	16,496,842	5p15.1	5p15.1
LU21_L	5	3	3	16,537,992	16,506,525	3p24.3	3p24.3
LU11_AD	9	1	1	16,555,228	29,125,897	1p36.13	1p35.3
LU11_AD	10	1	1	16,571,538	110,092,118	1p36.13	1p13.3
LU11_L	7	1	1	16,571,575	110,091,892	1p36.13	1p13.3
LU12_L	7	8	8	16,638,349	42,575,552	8p22	8p11.21
LU12_L	3	8	8	16,642,943	41,425,711	8p22	8p11.21
LU16_AD	8	7	7	16,648,775	34,495,874	7p21.1	7p14.3
LU12_L	8	8	8	16,685,419	16,894,703	8p22	8p22

LU18_L	3	7	8	16,760,641	19,547,896	7p21.1	8p21.3
LU18_AD	8	7	8	16,760,771	19,545,925	7p21.1	8p21.3
LU18_AD	3	24	23	16,772,112	6,028,182	Yq11.221	Xp22.31
LU15_L	6	17	17	16,783,939	16,826,894	17p11.2	17p11.2
LU7_AD	4	17	25	16,791,096	263,130	17p11.2	25
LU18_L	20	11	12	16,814,006	70,369,535	11p15.1	12q15
LU18_AD	23	11	12	16,815,364	70,369,492	11p15.1	12q15
LU15_L	6	17	17	16,826,894	16,783,939	17p11.2	17p11.2
LU12_L	4	1	1	16,830,283	147,852,382	1p36.13	1q21.2
LU18_AD	4	24	23	16,833,242	5,948,562	Yq11.221	Xp22.32
LU18_AD	9	11	12	16,846,954	70,761,545	11p15.1	12q15
LU18_L	4	11	12	16,848,079	70,762,591	11p15.1	12q15
LU4_L	3	22	2	16,876,725	132,566,667	22q11.1	2q21.2
LU18_L	19	7	12	16,894,626	71,818,470	7p21.1	12q21.1
LU12_L	8	8	8	16,894,703	16,685,419	8p22	8p22
LU18_AD	17	7	12	16,895,238	71,818,734	7p21.1	12q21.1
LU16_L	3	7	12	16,919,058	86,373,487	7p21.1	12q21.31
LU6_L	10	20	22	16,923,567	34,916,813	20p12.1	22q12.3
LU3_L	10	1	1	16,923,987	16,966,927	1p36.13	1p36.13
LU6_AD	4	20	22	16,925,574	34,915,045	20p12.1	22q12.3
LU3_L	3	1	3	16,925,906	49,728,243	1p36.13	3p21.31
LU16_AD	3	6	6	16,950,271	13,600,357	6p22.3	6p23
LU3_L	10	1	1	16,966,927	16,923,987	1p36.13	1p36.13
LU8_L	3	2	2	16,973,419	12,714,849	2p24.2	2p24.3
LU3_L	3	2	2	16,973,902	12,719,096	2p24.2	2p24.3
LU18_AD	4	11	8	16,990,970	13,302,529	11p15.1	8p22
LU18_AD	5	11	7	16,995,607	16,264,386	11p15.1	7p21.2
LU18_AD	10	11	11	17,029,836	5,993,456	11p15.1	11p15.4
LU18_L	5	11	11	17,029,895	5,993,548	11p15.1	11p15.4
LU11_AD	7	1	1	17,050,568	109,819,374	1p36.13	1p13.3
LU11_L	5	1	1	17,051,882	109,818,885	1p36.13	1p13.3
LU4_AD	4	10	12	17,059,985	92,780,843	10p13	12q22
LU12_L	3	1	1	17,063,582	143,717,107	1p36.13	1q21.1
LU6_L	5	20	20	17,095,287	14,127,812	20p12.1	20p12.1
LU12_L	19	8	8	17,118,698	16,190,529	8p22	8p22
LU16_AD	6	7	7	17,173,370	18,308,254	7p21.1	7p21.1
LU12_L	13	8	8	17,177,858	12,346,884	8p22	8p23.1
LU3_AD	4	16	16	17,207,204	17,246,992	16p12.3	16p12.3
LU18_L	4	22	20	17,228,958	25,782,943	22q11.1	20p11.1
LU3_AD	3	22	20	17,230,042	25,783,843	22q11.1	20p11.1
LU3_AD	4	16	16	17,246,992	17,207,204	16p12.3	16p12.3
LU15_AD	14	20	20	17,254,862	17,295,727	20p12.1	20p12.1
LU15_L	29	20	20	17,255,086	17,293,798	20p12.1	20p12.1
LU15_L	29	20	20	17,293,798	17,255,086	20p12.1	20p12.1

LU15_AD	14	20	20	17,295,727	17,254,862	20p12.1	20p12.1
LU7_L	5	7	7	17,316,728	19,181,921	7p21.1	7p21.1
LU11_AD	3	23	16	17,327,816	26,476,981	Xp22.13	16p12.1
LU11_L	6	20	12	17,434,826	68,097,323	20p12.1	12q15
LU4_AD	3	12	17	17,449,943	50,675,452	12p12.3	17q22
LU7_L	3	3	3	17,519,162	17,576,515	3p24.3	3p24.3
LU21_L	4	2	6	17,525,019	144,439,461	2p24.2	6q24.2
LU7_L	3	3	3	17,576,515	17,519,162	3p24.3	3p24.3
LU16_AD	6	7	7	17,599,985	12,595,657	7p21.1	7p21.3
LU7_L	3	6	6	17,600,615	32,520,438	6p22.3	6p21.32
LU5_L	3	6	6	17,601,249	32,520,917	6p22.3	6p21.32
LU18_L	6	8	5	17,605,255	10,278,568	8p22	5p15.2
LU18_AD	5	8	5	17,605,438	10,278,518	8p22	5p15.2
LU16_AD	22	9	9	17,614,314	44,423,046	9p22.2	9p11.2
LU16_AD	45	9	9	17,630,619	8,306,208	9p22.2	9p24.1
LU16_AD	11	9	9	17,657,227	17,810,532	9p22.2	9p22.2
LU18_L	31	5	11	17,661,424	21,031,615	5p15.1	11p15.1
LU18_L	14	5	11	17,661,678	21,029,451	5p15.1	11p15.1
LU18_AD	51	5	11	17,662,440	21,028,139	5p15.1	11p15.1
LU12_L	9	8	8	17,663,169	19,914,918	8p22	8p21.3
LU18_AD	8	5	5	17,705,214	97,033,313	5p15.1	5q15
LU18_L	6	5	5	17,706,155	97,033,966	5p15.1	5q15
LU3_AD	15	12	12	17,709,902	75,614,678	12p12.3	12q21.1
LU12_L	13	8	8	17,776,652	14,083,327	8p22	8p22
LU16_AD	3	3	3	17,813,035	34,565,177	3p24.3	3p22.3
LU21_L	3	16	16	17,828,203	17,998,782	16p12.3	16p12.3
LU18_L	12	11	11	17,902,846	10,548,340	11p15.1	11p15.4
LU18_AD	5	11	11	17,903,031	10,546,017	11p15.1	11p15.4
LU18_AD	34	11	7	17,973,223	21,613,756	11p15.1	7p15.3
LU18_L	27	11	7	17,973,476	21,617,551	11p15.1	7p15.3
LU18_L	8	11	15	17,975,285	47,257,266	11p15.1	15q21.1
LU18_AD	5	11	15	17,975,967	47,256,998	11p15.1	15q21.1
LU20_L	4	3	3	17,985,590	18,021,595	3p24.3	3p24.3
LU21_L	3	16	16	17,998,782	17,828,203	16p12.3	16p12.3
LU20_L	4	3	3	18,021,595	17,985,590	3p24.3	3p24.3
LU18_L	17	11	7	18,059,435	9,895,413	11p15.1	7p21.3
LU18_AD	11	11	7	18,059,629	9,892,357	11p15.1	7p21.3
LU12_AD	3	5	5	18,085,649	18,115,502	5p15.1	5p15.1
LU4_AD	3	7	7	18,103,074	21,619,589	7p21.1	7p15.3
LU12_AD	3	5	5	18,115,502	18,085,649	5p15.1	5p15.1
LU18_AD	4	8	11	18,130,838	5,904,804	8p22	11p15.4
LU18_L	6	8	11	18,131,323	5,904,722	8p22	11p15.4
LU12_L	17	8	8	18,162,549	14,618,879	8p22	8p22
LU18_AD	10	5	5	18,192,263	22,169,062	5p15.1	5p14.3

LU4_AD	3	11	8	18,231,629	81,507,140	11p15.1	8q21.13
LU18_AD	4	5	5	18,245,128	13,406,969	5p15.1	5p15.2
LU18_L	3	11	11	18,279,452	18,422,356	11p15.1	11p15.1
LU20_L	3	5	5	18,294,702	18,325,663	5p15.1	5p15.1
LU4_AD	3	17	17	18,294,988	26,002,777	17p11.2	17q11.2
LU16_AD	6	7	7	18,308,254	17,173,370	7p21.1	7p21.1
LU20_L	3	5	5	18,325,663	18,294,702	5p15.1	5p15.1
LU5_AD	3	7	7	18,344,895	18,377,976	7p21.1	7p21.1
LU5_AD	3	7	7	18,377,976	18,344,895	7p21.1	7p21.1
LU18_AD	4	11	11	18,392,743	6,824,764	11p15.1	11p15.4
LU18_L	3	11	11	18,422,356	18,279,452	11p15.1	11p15.1
LU18_L	4	5	12	18,536,665	13,417,373	5p14.3	12p13.1
LU18_L	4	5	12	18,541,650	68,164,343	5p14.3	12q15
LU21_AD	3	4	4	18,545,079	18,574,751	4p15.31	4p15.31
LU18_AD	3	5	5	18,550,025	31,186,301	5p14.3	5p13.3
LU12_L	3	7	7	18,555,157	18,591,321	7p21.1	7p21.1
LU3_AD	3	21	21	18,555,178	18,587,633	21q21.1	21q21.1
LU21_AD	3	4	4	18,574,751	18,545,079	4p15.31	4p15.31
LU20_L	3	16	16	18,577,547	10,796,671	16p12.3	16p13.13
LU20_AD	3	16	5	18,577,690	135,140,174	16p12.3	5q31.1
LU3_AD	5	12	12	18,583,646	72,421,885	12p12.3	12q21.1
LU6_L	6	16	2	18,584,722	22,785,941	16p12.3	2p24.1
LU3_AD	3	21	21	18,587,633	18,555,178	21q21.1	21q21.1
LU12_L	3	7	7	18,591,321	18,555,157	7p21.1	7p21.1
LU6_L	3	16	2	18,595,863	30,238,645	16p12.3	2p23.1
LU20_L	3	2	2	18,631,835	18,664,773	2p24.2	2p24.2
LU20_L	3	2	2	18,664,773	18,631,835	2p24.2	2p24.2
LU18_AD	3	3	3	18,696,792	18,755,365	3p24.3	3p24.3
LU18_AD	3	3	3	18,755,365	18,696,792	3p24.3	3p24.3
LU16_L	3	22	22	18,813,496	20,503,731	22q11.21	22q11.21
LU18_AD	4	22	22	18,813,663	20,503,822	22q11.21	22q11.21
LU20_L	3	3	3	18,850,752	18,880,290	3p24.3	3p24.3
LU12_L	4	22	10	18,878,228	94,936,131	22q11.21	10q23.33
LU20_L	3	3	3	18,880,290	18,850,752	3p24.3	3p24.3
LU12_L	11	8	8	18,892,143	40,639,526	8p22	8p11.21
LU12_L	11	8	8	18,895,081	42,571,235	8p22	8p11.21
LU6_L	6	5	16	18,895,614	15,272,833	5p14.3	16p13.11
LU18_L	55	1	6	18,904,760	72,624,998	1p36.13	6q13
LU18_AD	32	1	6	18,906,460	72,623,274	1p36.13	6q13
LU3_L	3	22	5	18,928,204	156,095,888	22q11.21	5q33.3
LU20_L	3	21	18	18,939,570	14,476,084	21q21.1	18p11.21
LU20_AD	3	7	7	18,973,601	19,005,657	7p21.1	7p21.1
LU11_L	4	8	8	18,986,672	140,480,647	8p22	8q24.3
LU12_L	3	11	5	19,003,185	127,559,207	11p15.1	5q23.3

LU18_L	5	11	12	19,003,784	69,591,135	11p15.1	12q15
LU20_AD	3	7	7	19,005,657	18,973,601	7p21.1	7p21.1
LU4_AD	3	8	23	19,017,786	76,759,203	8p21.3	Xq21.1
LU6_AD	4	11	1	19,055,859	92,755,794	11p15.1	1p22.1
LU4_AD	10	7	7	19,151,766	40,620,297	7p21.1	7p14.1
LU18_L	3	13	14	19,168,435	19,638,758	13q11	14q11.2
LU18_L	3	13	22	19,171,368	16,204,700	13q11	22q11.1
LU7_L	4	7	7	19,177,972	139,988,552	7p21.1	7q34
LU7_L	5	7	7	19,181,921	17,316,728	7p21.1	7p21.1
LU16_AD	74	7	5	19,206,396	3,027,779	7p21.1	5p15.33
LU16_L	18	7	5	19,206,398	3,026,617	7p21.1	5p15.33
LU7_AD	4	7	7	19,253,594	12,697,185	7p21.1	7p21.3
LU8_L	4	13	4	19,255,364	137,276,507	13q11	4q28.3
LU7_L	3	7	7	19,255,399	12,695,033	7p21.1	7p21.3
LU6_L	5	16	16	19,272,618	19,574,392	16p12.3	16p12.3
LU14_L	4	6	6	19,274,995	87,389,051	6p22.3	6q14.3
LU6_AD	4	5	5	19,275,837	31,808,246	5p14.3	5p13.3
LU4_L	3	6	11	19,276,742	25,026,731	6p22.3	11p14.3
LU3_L	3	24	23	19,278,782	4,251,303	Yq11.221	Xp22.33
LU18_AD	8	8	11	19,287,152	78,980,721	8p21.3	11q14.1
LU18_L	6	8	11	19,288,483	78,981,222	8p21.3	11q14.1
LU4_AD	13	7	2	19,320,559	237,119,855	7p21.1	2q37.2
LU3_AD	3	12	12	19,349,871	45,663,346	12p12.3	12q12
LU21_AD	3	7	7	19,353,515	19,629,836	7p21.1	7p21.1
LU4_AD	3	7	23	19,361,067	2,971,512	7p21.1	Xp22.33
LU14_L	5	14	14	19,371,781	19,740,448	14q11.2	14q11.2
LU15_AD	3	14	14	19,375,617	19,735,030	14q11.2	14q11.2
LU18_L	3	14	8	19,392,906	14,306,559	14q11.2	8p22
LU18_L	4	14	11	19,400,241	100,847,009	14q11.2	11q22.1
LU4_L	4	14	11	19,400,720	100,846,830	14q11.2	11q22.1
LU20_AD	3	6	14	19,403,734	58,190,367	6p22.3	14q23.1
LU7_L	3	7	7	19,428,946	42,924,387	7p21.1	7p14.1
LU12_AD	3	9	12	19,461,221	117,013,473	9p22.1	12q24.22
LU21_AD	4	14	15	19,487,789	21,134,184	14q11.2	15q11.2
LU5_L	8	17	17	19,495,471	19,539,256	17p11.2	17p11.2
LU6_L	7	14	14	19,532,169	20,086,665	14q11.2	14q11.2
LU3_L	4	17	22	19,538,147	26,142,472	17p11.2	22q12.1
LU5_L	8	17	17	19,539,256	19,495,471	17p11.2	17p11.2
LU18_AD	3	6	2	19,540,207	70,845,917	6p22.3	2p13.3
LU18_AD	8	8	7	19,545,925	16,760,771	8p21.3	7p21.1
LU18_L	3	8	7	19,547,896	16,760,641	8p21.3	7p21.1
LU18_L	3	14	21	19,568,071	14,995,327	14q11.2	21q11.2
LU6_L	5	16	16	19,574,392	19,272,618	16p12.3	16p12.3
LU21_L	3	24	12	19,592,136	34,274,985	Yq11.221	12p11.1

LU18_AD	4	13	14	19,598,325	20,637,362	13q12.11	14q11.2
LU18_L	26	11	12	19,621,346	74,529,640	11p15.1	12q21.1
LU18_AD	22	11	12	19,621,351	74,532,208	11p15.1	12q21.1
LU20_AD	3	24	9	19,623,054	141,077,124	Yq11.221	9q34.3
LU8_L	3	24	3	19,629,113	197,846,737	Yq11.221	3q29
LU21_AD	3	7	7	19,629,836	19,353,515	7p21.1	7p21.1
LU18_AD	31	11	5	19,634,856	16,375,429	11p15.1	5p15.1
LU18_L	32	11	5	19,636,698	16,373,825	11p15.1	5p15.1
LU7_L	3	7	15	19,637,210	35,950,971	7p21.1	15q14
LU18_L	3	14	13	19,638,758	19,168,435	14q11.2	13q11
LU15_AD	4	11	11	19,639,631	19,672,738	11p15.1	11p15.1
LU8_AD	3	2	2	19,639,870	19,671,992	2p24.1	2p24.1
LU7_AD	4	20	12	19,660,383	2,829,911	20p11.23	12p13.33
LU8_AD	3	2	2	19,671,992	19,639,870	2p24.1	2p24.1
LU15_AD	4	11	11	19,672,738	19,639,631	11p15.1	11p15.1
LU12_L	18	8	8	19,699,420	9,280,005	8p21.3	8p23.1
LU8_L	4	5	4	19,706,178	177,266,196	5p14.3	4q34.2
LU21_L	4	5	4	19,706,830	102,824,069	5p14.3	4q24
LU3_L	3	14	25	19,716,129	3,195,419	14q11.2	25
LU15_AD	3	14	14	19,735,030	19,375,617	14q11.2	14q11.2
LU14_L	5	14	14	19,740,448	19,371,781	14q11.2	14q11.2
LU3_AD	3	12	12	19,836,183	46,088,835	12p12.3	12q12
LU3_AD	3	14	15	19,843,214	20,885,988	14q11.2	15q11.2
LU18_AD	4	14	15	19,843,879	20,887,038	14q11.2	15q11.2
LU8_AD	3	13	13	19,856,973	19,889,397	13q12.11	13q12.11
LU18_L	38	5	11	19,870,009	4,514,363	5p14.3	11p15.4
LU18_AD	35	5	11	19,870,748	4,513,664	5p14.3	11p15.4
LU8_AD	3	13	13	19,889,397	19,856,973	13q12.11	13q12.11
LU4_AD	3	19	11	19,895,107	92,837,300	19p13.11	11q21
LU3_AD	4	12	12	19,901,070	47,476,587	12p12.3	12q13.11
LU12_L	9	8	8	19,914,918	17,663,169	8p21.3	8p22
LU15_L	5	22	19	19,925,195	24,037,125	22q11.21	19p12
LU20_AD	6	21	21	19,976,981	20,480,393	21q21.1	21q21.1
LU3_AD	5	14	22	19,985,022	16,289,218	14q11.2	22q11.1
LU3_L	4	14	22	19,986,715	16,287,533	14q11.2	22q11.1
LU18_L	21	15	5	20,003,985	685,504	15q11.1	5p15.33
LU18_AD	22	15	5	20,004,172	686,514	15q11.1	5p15.33
LU18_AD	4	15	5	20,004,450	778,666	15q11.1	5p15.33
LU18_L	21	15	12	20,005,375	63,068,945	15q11.1	12q14.1
LU18_AD	18	15	12	20,005,956	63,069,409	15q11.1	12q14.1
LU18_AD	16	5	5	20,012,793	20,798,549	5p14.3	5p14.3
LU15_AD	3	8	21	20,012,875	28,227,875	8p21.3	21q21.3
LU18_AD	9	5	5	20,014,590	34,405,474	5p14.3	5p13.2
LU18_L	12	5	5	20,014,904	34,405,611	5p14.3	5p13.2

LU18_L	6	5	5	20,017,733	20,792,555	5p14.3	5p14.3
LU14_AD	3	19	19	20,038,363	21,011,086	19p12	19p12
LU21_AD	12	5	5	20,060,621	172,007,628	5p14.3	5q35.1
LU20_AD	3	19	1	20,071,545	226,726,942	19p12	1q42.12
LU3_L	15	12	12	20,081,482	80,686,253	12p12.2	12q21.31
LU6_L	7	14	14	20,086,665	19,532,169	14q11.2	14q11.2
LU8_AD	3	7	7	20,095,014	20,128,568	7p21.1	7p21.1
LU6_L	4	19	19	20,098,286	20,181,540	19p12	19p12
LU21_AD	3	15	21	20,100,707	9,479,778	15q11.1	21p11.2
LU14_AD	4	2	7	20,125,036	46,085,278	2p24.1	7p12.3
LU3_L	4	2	19	20,126,242	45,135,823	2p24.1	19q13.31
LU4_L	3	10	10	20,127,124	20,166,056	10p12.31	10p12.31
LU18_AD	5	21	4	20,127,946	133,805,598	21q21.1	4q28.3
LU8_AD	3	7	7	20,128,568	20,095,014	7p21.1	7p21.1
LU4_L	3	10	10	20,166,056	20,127,124	10p12.31	10p12.31
LU21_AD	3	15	16	20,171,322	31,961,967	15q11.1	16p11.2
LU4_L	3	15	16	20,173,636	31,961,234	15q11.1	16p11.2
LU6_L	4	19	19	20,181,540	20,098,286	19p12	19p12
LU3_L	4	19	10	20,200,556	27,753,581	19p12	10p12.1
LU4_AD	4	6	23	20,312,318	96,971,229	6p22.3	Xq21.33
LU7_L	3	12	7	20,315,182	41,820,913	12p12.2	7p14.1
LU7_L	3	12	7	20,330,254	12,703,867	12p12.2	7p21.3
LU20_L	3	10	10	20,339,020	20,375,599	10p12.31	10p12.31
LU21_AD	3	8	8	20,364,376	20,396,403	8p21.3	8p21.3
LU20_L	3	10	10	20,375,599	20,339,020	10p12.31	10p12.31
LU7_AD	3	21	7	20,386,611	23,729,049	21q21.1	7p15.3
LU21_AD	3	8	8	20,396,403	20,364,376	8p21.3	8p21.3
LU7_L	4	21	7	20,416,966	54,531,244	21q21.1	7p11.2
LU18_AD	20	5	5	20,438,135	1,427,984	5p14.3	5p15.33
LU18_L	17	5	5	20,438,704	1,427,067	5p14.3	5p15.33
LU12_L	9	8	8	20,442,107	29,149,722	8p21.3	8p12
LU12_L	14	8	8	20,445,825	5,202,949	8p21.3	8p23.2
LU20_L	3	8	8	20,464,778	20,505,680	8p21.3	8p21.3
LU3_L	3	12	12	20,479,620	27,236,517	12p12.2	12p11.23
LU20_AD	6	21	21	20,480,393	19,976,981	21q21.1	21q21.1
LU18_L	4	17	17	20,482,628	14,140,026	17p11.2	17p12
LU16_L	3	22	22	20,503,731	18,813,496	22q11.21	22q11.21
LU18_AD	4	22	22	20,503,822	18,813,663	22q11.21	22q11.21
LU20_L	3	8	8	20,505,680	20,464,778	8p21.3	8p21.3
LU20_L	3	3	3	20,570,906	20,604,453	3p24.3	3p24.3
LU21_AD	3	24	1	20,578,732	227,714,506	Yq11.222	1q42.13
LU18_AD	7	15	5	20,590,632	667,266	15q11.1	5p15.33
LU18_L	9	15	5	20,591,197	541,225	15q11.1	5p15.33
LU3_AD	3	14	14	20,602,114	20,632,725	14q11.2	14q11.2

LU6_L	3	1	1	20,603,429	20,656,507	1p36.12	1p36.12
LU20_L	3	3	3	20,604,453	20,570,906	3p24.3	3p24.3
LU18_AD	3	5	12	20,629,242	64,627,753	5p14.3	12q14.2
LU14_L	4	13	1	20,629,539	144,378,539	13q12.11	1q21.1
LU3_AD	3	14	14	20,632,725	20,602,114	14q11.2	14q11.2
LU12_L	4	4	2	20,634,982	207,884,294	4p15.31	2q33.3
LU3_L	4	14	21	20,637,233	14,816,008	14q11.2	21q11.2
LU18_AD	4	14	13	20,637,362	19,598,325	14q11.2	13q12.11
LU7_L	5	12	7	20,643,026	45,912,065	12p12.2	7p12.3
LU4_AD	3	3	16	20,656,361	34,299,724	3p24.3	16p11.2
LU6_L	3	1	1	20,656,507	20,603,429	1p36.12	1p36.12
LU20_L	3	16	7	20,688,590	50,107,219	16p12.3	7p12.2
LU7_AD	5	12	7	20,693,416	39,775,283	12p12.2	7p14.1
LU5_L	4	19	13	20,700,340	67,971,960	19p12	13q21.32
LU3_AD	4	12	12	20,730,295	20,770,480	12p12.2	12p12.2
LU7_AD	4	22	22	20,741,614	23,806,488	22q11.21	22q11.23
LU18_L	4	22	22	20,741,799	23,803,371	22q11.21	22q11.23
LU21_AD	3	6	6	20,744,853	20,774,899	6p22.3	6p22.3
LU18_AD	14	5	12	20,751,960	74,031,148	5p14.3	12q21.1
LU18_L	15	5	12	20,751,984	74,031,126	5p14.3	12q21.1
LU3_AD	4	12	12	20,770,480	20,730,295	12p12.2	12p12.2
LU21_AD	3	6	6	20,774,899	20,744,853	6p22.3	6p22.3
LU18_L	41	5	5	20,778,032	16,226,889	5p14.3	5p15.1
LU18_AD	31	5	5	20,778,524	16,226,898	5p14.3	5p15.1
LU18_L	6	5	5	20,792,555	20,017,733	5p14.3	5p14.3
LU18_AD	16	5	5	20,798,549	20,012,793	5p14.3	5p14.3
LU20_L	3	21	21	20,827,526	20,861,968	21q21.1	21q21.1
LU7_L	3	19	19	20,830,866	20,974,266	19p12	19p12
LU7_AD	3	7	7	20,837,008	21,925,706	7p21.1	7p15.3
LU8_L	3	14	14	20,840,749	20,871,896	14q11.2	14q11.2
LU18_L	3	15	14	20,843,852	107,180,208	15q11.2	14q32.33
LU21_L	5	17	17	20,844,656	11,163,405	17p11.2	17p12
LU21_AD	9	17	17	20,844,856	11,163,177	17p11.2	17p12
LU20_L	3	21	21	20,861,968	20,827,526	21q21.1	21q21.1
LU3_AD	4	12	12	20,863,629	38,878,332	12p12.2	12q12
LU8_L	3	14	14	20,871,896	20,840,749	14q11.2	14q11.2
LU18_AD	10	15	5	20,885,587	2,193,450	15q11.2	5p15.33
LU18_L	8	15	5	20,885,972	1,081,484	15q11.2	5p15.33
LU3_AD	3	15	14	20,885,988	19,843,214	15q11.2	14q11.2
LU18_L	15	15	5	20,885,998	2,192,717	15q11.2	5p15.33
LU18_AD	4	15	14	20,887,038	19,843,879	15q11.2	14q11.2
LU4_AD	10	18	5	20,910,432	63,087,582	18q11.2	5q12.2
LU18_AD	50	11	11	20,927,899	29,824,455	11p15.1	11p14.1
LU18_L	37	11	11	20,928,698	29,823,554	11p15.1	11p14.1

LU6_AD	3	20	20	20,954,809	20,988,628	20p11.23	20p11.23
LU7_L	3	19	19	20,974,266	20,830,866	19p12	19p12
LU6_AD	3	20	20	20,988,628	20,954,809	20p11.23	20p11.23
LU14_AD	3	19	19	21,011,086	20,038,363	19p12	19p12
LU18_AD	51	11	5	21,028,139	17,662,440	11p15.1	5p15.1
LU18_L	14	11	5	21,029,451	17,661,678	11p15.1	5p15.1
LU18_L	31	11	5	21,031,615	17,661,424	11p15.1	5p15.1
LU7_L	7	7	7	21,052,052	37,558,684	7p15.3	7p14.1
LU20_AD	3	20	20	21,066,047	35,567,962	20p11.23	20q11.23
LU18_AD	8	12	12	21,091,886	68,939,485	12p12.2	12q15
LU18_L	7	12	12	21,093,460	68,937,811	12p12.2	12q15
LU7_L	21	7	7	21,129,806	25,166,901	7p15.3	7p15.3
LU7_AD	6	7	7	21,130,809	25,166,046	7p15.3	7p15.3
LU21_AD	4	15	14	21,134,184	19,487,789	15q11.2	14q11.2
LU4_AD	3	19	19	21,141,525	23,920,704	19p12	19p12
LU18_AD	4	15	5	21,143,433	15,824,709	15q11.2	5p15.1
LU18_AD	4	15	5	21,157,170	11,163,531	15q11.2	5p15.2
LU18_L	6	15	5	21,157,784	11,164,093	15q11.2	5p15.2
LU20_AD	3	11	11	21,159,052	21,195,472	11p15.1	11p15.1
LU15_L	3	17	6	21,187,096	50,671,134	17p11.2	6p12.3
LU18_L	3	15	5	21,188,592	6,907,994	15q11.2	5p15.31
LU20_AD	3	11	11	21,195,472	21,159,052	11p15.1	11p15.1
LU4_AD	6	15	10	21,195,865	38,039,163	15q11.2	10p11.1
LU4_L	4	15	10	21,196,796	38,038,838	15q11.2	10p11.1
LU18_L	5	5	12	21,223,708	67,489,784	5p14.3	12q14.3
LU18_AD	5	5	12	21,224,006	67,489,706	5p14.3	12q14.3
LU12_AD	8	13	2	21,237,228	78,998,352	13q12.11	2p12
LU11_L	8	13	1	21,292,877	116,893,368	13q12.11	1p13.1
LU11_AD	20	13	1	21,293,961	116,890,558	13q12.11	1p13.1
LU4_L	4	5	5	21,296,491	69,973,373	5p14.3	5q13.2
LU3_L	3	21	21	21,296,549	21,330,100	21q21.1	21q21.1
LU18_AD	3	17	17	21,312,012	21,343,746	17p11.2	17p11.2
LU3_L	3	12	12	21,315,342	21,352,109	12p12.1	12p12.1
LU3_L	3	21	21	21,330,100	21,296,549	21q21.1	21q21.1
LU18_AD	16	8	7	21,334,101	23,460,838	8p21.3	7p15.3
LU18_L	20	8	7	21,335,285	23,460,302	8p21.3	7p15.3
LU18_AD	3	17	17	21,343,746	21,312,012	17p11.2	17p11.2
LU3_L	3	12	12	21,352,109	21,315,342	12p12.1	12p12.1
LU20_AD	3	3	3	21,401,124	75,725,762	3p24.3	3p12.3
LU18_AD	3	7	11	21,489,717	8,908,117	7p15.3	11p15.4
LU18_AD	8	7	5	21,495,954	821,042	7p15.3	5p15.33
LU18_AD	3	7	5	21,496,042	731,049	7p15.3	5p15.33
LU18_L	4	7	5	21,496,140	822,447	7p15.3	5p15.33
LU18_AD	8	7	5	21,498,170	15,423,489	7p15.3	5p15.1

LU12_L	3	5	5	21,504,648	29,560,054	5p14.3	5p13.3
LU3_AD	3	12	12	21,505,196	28,647,659	12p12.1	12p11.22
LU5_L	3	7	7	21,545,126	21,583,846	7p15.3	7p15.3
LU21_AD	3	17	2	21,547,266	90,406,320	17p11.2	2p11.2
LU3_L	3	5	6	21,562,877	57,551,276	5p14.3	6p11.2
LU5_L	3	7	7	21,583,846	21,545,126	7p15.3	7p15.3
LU4_AD	5	7	7	21,588,176	21,544,327	7p15.3	7p15.3
LU18_L	4	7	6	21,590,554	80,235,406	7p15.3	6q14.1
LU7_L	4	19	2	21,595,352	48,613,412	19p12	2p16.3
LU5_AD	4	19	20	21,597,231	38,352,701	19p12	20q12
LU18_AD	34	7	11	21,613,756	17,973,223	7p15.3	11p15.1
LU3_L	3	19	19	21,613,882	22,572,875	19p12	19p12
LU18_L	27	7	11	21,617,551	17,973,476	7p15.3	11p15.1
LU4_AD	3	7	7	21,619,589	18,103,074	7p15.3	7p21.1
LU18_AD	3	16	3	21,640,662	164,534,562	16p12.2	3q26.1
LU20_AD	3	16	1	21,644,939	66,886,447	16p12.2	1p31.3
LU18_AD	3	5	11	21,660,757	41,670,043	5p14.3	11p12
LU18_AD	3	5	7	21,666,747	10,762,046	5p14.3	7p21.3
LU20_AD	4	1	1	21,792,239	151,987,827	1p36.12	1q21.3
LU5_L	3	1	1	21,792,590	120,532,906	1p36.12	1p12
LU4_L	3	1	1	21,793,287	120,533,045	1p36.12	1p12
LU3_AD	5	3	3	21,794,125	29,761,426	3p24.3	3p24.1
LU18_AD	3	19	19	21,797,253	23,456,123	19p12	19p12
LU18_AD	5	5	25	21,818,703	1,626,713	5p14.3	25
LU7_AD	4	7	12	21,835,395	68,814,932	7p15.3	12q15
LU7_L	5	7	12	21,836,076	68,815,337	7p15.3	12q15
LU21_AD	3	19	20	21,850,049	23,453,521	19p12	20p11.21
LU15_AD	9	9	3	21,865,875	27,238,092	9p21.3	3p24.1
LU21_L	3	17	9	21,874,415	44,903,714	17p11.2	9p11.2
LU4_L	5	13	18	21,884,939	42,186,460	13q12.11	18q12.3
LU18_AD	29	21	11	21,900,579	6,740,199	21q21.1	11p15.4
LU18_L	32	21	11	21,902,047	6,740,066	21q21.1	11p15.4
LU18_L	5	15	15	21,902,103	23,020,803	15q11.2	15q11.2
LU18_AD	5	15	12	21,905,148	68,565,447	15q11.2	12q15
LU18_AD	14	15	12	21,905,286	71,801,594	15q11.2	12q21.1
LU18_L	13	15	12	21,905,675	71,800,637	15q11.2	12q21.1
LU15_L	4	7	12	21,918,916	105,906,669	7p15.3	12q23.3
LU18_L	67	15	12	21,920,313	63,743,275	15q11.2	12q14.2
LU18_AD	58	15	12	21,921,562	63,743,312	15q11.2	12q14.2
LU20_AD	3	6	6	21,921,670	21,958,433	6p22.3	6p22.3
LU18_AD	15	15	12	21,924,425	63,743,784	15q11.2	12q14.2
LU7_AD	3	7	7	21,925,706	20,837,008	7p15.3	7p21.1
LU20_AD	3	6	6	21,958,433	21,921,670	6p22.3	6p22.3
LU15_AD	5	9	14	21,974,528	62,218,806	9p21.3	14q23.2

LU18_AD	4	5	5	21,980,992	27,580,713	5p14.3	5p14.1
LU21_L	4	9	5	22,042,793	177,173,977	9p21.3	5q35.3
LU21_AD	7	9	5	22,042,803	177,174,229	9p21.3	5q35.3
LU4_AD	3	9	9	22,136,576	22,179,457	9p21.3	9p21.3
LU4_AD	5	14	3	22,163,640	43,641,597	14q11.2	3p22.1
LU18_L	4	15	5	22,167,555	11,164,109	15q11.2	5p15.2
LU18_AD	4	15	5	22,168,810	11,163,957	15q11.2	5p15.2
LU18_AD	10	5	5	22,169,062	18,192,263	5p14.3	5p15.1
LU4_AD	3	9	9	22,179,457	22,136,576	9p21.3	9p21.3
LU21_L	3	20	20	22,251,019	22,291,761	20p11.22	20p11.22
LU4_AD	10	20	20	22,265,804	23,683,260	20p11.22	20p11.21
LU4_L	3	20	20	22,266,558	23,683,933	20p11.22	20p11.21
LU21_L	3	20	20	22,291,761	22,251,019	20p11.22	20p11.22
LU18_AD	5	22	11	22,306,854	14,822,455	22q11.22	11p15.2
LU3_L	3	18	18	22,317,013	22,366,680	18q11.2	18q11.2
LU18_AD	9	8	8	22,325,493	23,309,171	8p21.3	8p21.2
LU18_L	5	8	8	22,328,064	23,309,069	8p21.3	8p21.2
LU3_L	3	18	18	22,366,680	22,317,013	18q11.2	18q11.2
LU3_L	3	15	15	22,376,492	22,444,418	15q11.2	15q11.2
LU21_L	5	11	11	22,382,332	22,412,362	11p14.3	11p14.3
LU5_AD	3	12	6	22,385,695	73,856,692	12p12.1	6q13
LU21_L	5	11	11	22,412,362	22,382,332	11p14.3	11p14.3
LU18_AD	3	7	7	22,430,893	22,468,836	7p15.3	7p15.3
LU14_L	3	10	8	22,432,368	50,564,649	10p12.31	8q11.21
LU18_L	3	10	19	22,433,806	5,157,487	10p12.31	19p13.3
LU3_L	3	15	15	22,444,418	22,376,492	15q11.2	15q11.2
LU3_L	3	15	15	22,448,126	22,486,352	15q11.2	15q11.2
LU18_AD	3	7	7	22,468,836	22,430,893	7p15.3	7p15.3
LU4_L	3	14	5	22,480,559	56,720,235	14q11.2	5q11.2
LU3_L	3	15	15	22,486,352	22,448,126	15q11.2	15q11.2
LU4_AD	3	14	14	22,505,307	22,539,797	14q11.2	14q11.2
LU6_AD	7	1	11	22,539,155	67,176,874	1p36.12	11q13.2
LU4_AD	3	14	14	22,539,797	22,505,307	14q11.2	14q11.2
LU3_L	3	19	19	22,572,875	21,613,882	19p12	19p12
LU4_AD	11	1	16	22,585,551	49,059,323	1p36.12	16q12.1
LU18_L	3	4	5	22,587,917	146,612,340	4p15.2	5q32
LU5_L	5	4	1	22,604,646	147,797,079	4p15.2	1q21.2
LU4_AD	11	20	20	22,608,355	25,308,677	20p11.21	20p11.21
LU21_L	3	21	21	22,681,817	22,718,544	21q21.1	21q21.1
LU18_L	5	11	12	22,690,709	72,378,376	11p14.3	12q21.1
LU8_AD	3	14	12	22,705,105	59,252,436	14q11.2	12q14.1
LU20_L	4	23	23	22,705,636	22,735,685	Xp22.11	Xp22.11
LU18_L	3	14	2	22,706,502	76,097,417	14q11.2	2p12
LU21_AD	3	14	11	22,708,507	26,614,882	14q11.2	11p14.2

LU21_L	3	21	21	22,718,544	22,681,817	21q21.1	21q21.1
LU18_AD	68	15	12	22,734,569	57,890,928	15q11.2	12q13.3
LU18_L	78	15	12	22,734,656	57,890,354	15q11.2	12q13.3
LU20_L	4	23	23	22,735,685	22,705,636	Xp22.11	Xp22.11
LU18_L	3	15	15	22,737,006	62,561,594	15q11.2	15q22.2
LU7_L	5	7	15	22,738,600	36,002,557	7p15.3	15q14
LU18_L	7	15	12	22,744,188	57,892,199	15q11.2	12q13.3
LU18_AD	8	15	5	22,746,067	624,268	15q11.2	5p15.33
LU3_AD	4	12	12	22,785,179	43,551,639	12p12.1	12q12
LU6_L	6	2	16	22,785,941	18,584,722	2p24.1	16p12.3
LU6_L	5	2	16	22,786,234	24,852,303	2p24.1	16p12.1
LU6_AD	7	2	2	22,790,820	30,190,099	2p24.1	2p23.1
LU6_L	8	2	2	22,791,396	30,190,342	2p24.1	2p23.1
LU18_L	3	13	13	22,791,404	22,841,508	13q12.11	13q12.11
LU18_AD	7	15	12	22,820,909	58,012,149	15q11.2	12q13.3
LU18_L	13	15	12	22,823,597	58,010,727	15q11.2	12q13.3
LU18_L	7	7	5	22,831,123	34,104,200	7p15.3	5p13.2
LU18_L	3	13	13	22,841,508	22,791,404	13q12.11	13q12.11
LU4_L	3	1	16	22,856,393	68,230,653	1p36.12	16q22.1
LU18_AD	3	11	7	22,895,112	10,760,059	11p14.3	7p21.3
LU7_AD	4	7	7	22,900,555	77,854	7p15.3	7p22.3
LU12_L	6	8	8	22,907,082	8,555,678	8p21.3	8p23.1
LU18_AD	5	15	5	22,918,240	1,340,380	15q11.2	5p15.33
LU18_L	5	15	5	22,918,340	1,340,329	15q11.2	5p15.33
LU6_AD	5	2	16	22,919,341	24,722,068	2p24.1	16p12.1
LU18_AD	4	11	7	22,928,093	10,662,845	11p14.3	7p21.3
LU4_AD	3	19	21	22,934,411	41,111,947	19p12	21q22.2
LU5_L	3	14	14	22,936,214	23,000,748	14q11.2	14q11.2
LU4_AD	3	19	19	22,937,122	24,313,527	19p12	19p12
LU21_L	3	19	4	22,937,430	87,123	19p12	4p16.3
LU18_AD	11	7	7	22,943,972	23,006,221	7p15.3	7p15.3
LU18_L	8	7	7	22,944,042	23,006,176	7p15.3	7p15.3
LU18_AD	6	7	11	22,961,612	2,317,489	7p15.3	11p15.5
LU18_L	3	15	5	22,999,904	120,373,304	15q11.2	5q23.1
LU18_AD	4	15	5	23,000,240	120,373,080	15q11.2	5q23.1
LU5_L	3	14	14	23,000,748	22,936,214	14q11.2	14q11.2
LU18_L	8	7	7	23,006,176	22,944,042	7p15.3	7p15.3
LU18_AD	11	7	7	23,006,221	22,943,972	7p15.3	7p15.3
LU8_L	3	20	20	23,011,295	23,051,776	20p11.21	20p11.21
LU18_L	5	15	15	23,020,803	21,902,103	15q11.2	15q11.2
LU7_L	3	7	7	23,024,083	48,326,532	7p15.3	7p12.3
LU7_AD	3	7	7	23,024,715	48,327,488	7p15.3	7p12.3
LU8_L	3	20	20	23,051,776	23,011,295	20p11.21	20p11.21
LU3_L	4	2	2	23,068,560	23,103,935	2p24.1	2p24.1

LU3_L	4	2	2	23,103,935	23,068,560	2p24.1	2p24.1
LU3_AD	3	12	12	23,147,365	23,184,016	12p12.1	12p12.1
LU3_AD	6	10	10	23,152,004	28,485,520	10p12.2	10p12.1
LU21_AD	4	6	11	23,162,878	95,665,656	6p22.3	11q21
LU7_L	4	7	15	23,174,221	34,569,858	7p15.3	15q14
LU16_L	4	22	22	23,177,925	23,215,074	22q11.22	22q11.22
LU3_AD	4	14	13	23,178,718	61,795,268	14q11.2	13q21.2
LU3_AD	3	12	12	23,184,016	23,147,365	12p12.1	12p12.1
LU18_AD	7	15	12	23,211,126	64,332,089	15q11.2	12q14.2
LU18_L	7	15	12	23,211,854	64,332,091	15q11.2	12q14.2
LU16_L	4	22	22	23,215,074	23,177,925	22q11.22	22q11.22
LU7_L	3	22	22	23,239,693	25,714,683	22q11.22	22q11.23
LU15_AD	3	22	22	23,243,056	32,598,527	22q11.22	22q12.3
LU3_AD	4	5	3	23,298,862	106,822,381	5p14.3	3q13.12
LU5_L	3	4	4	23,299,522	23,337,891	4p15.2	4p15.2
LU18_L	5	8	8	23,309,069	22,328,064	8p21.2	8p21.3
LU18_AD	9	8	8	23,309,171	22,325,493	8p21.2	8p21.3
LU5_L	3	4	4	23,337,891	23,299,522	4p15.2	4p15.2
LU7_L	3	12	7	23,368,682	47,721,792	12p12.1	7p12.3
LU7_AD	3	15	15	23,393,984	28,585,692	15q11.2	15q13.1
LU11_AD	16	6	6	23,402,760	23,493,958	6p22.3	6p22.3
LU8_L	3	10	10	23,423,188	107,446,076	10p12.2	10q25.1
LU21_L	3	10	23	23,427,764	41,533,593	10p12.2	Xp11.4
LU3_AD	3	20	4	23,448,622	102,826,785	20p11.21	4q24
LU21_AD	3	20	19	23,453,521	21,850,049	20p11.21	19p12
LU18_AD	3	19	19	23,456,123	21,797,253	19p12	19p12
LU18_L	20	7	8	23,460,302	21,335,285	7p15.3	8p21.3
LU18_AD	16	7	8	23,460,838	21,334,101	7p15.3	8p21.3
LU7_L	6	7	12	23,466,646	67,037,722	7p15.3	12q14.3
LU4_L	3	2	2	23,471,952	23,504,479	2p24.1	2p24.1
LU7_L	3	6	6	23,474,716	23,505,905	6p22.3	6p22.3
LU11_AD	16	6	6	23,493,958	23,402,760	6p22.3	6p22.3
LU18_AD	4	7	11	23,497,584	43,418,379	7p15.3	11p12
LU18_L	5	7	11	23,498,666	43,417,261	7p15.3	11p12
LU4_L	3	2	2	23,504,479	23,471,952	2p24.1	2p24.1
LU7_L	3	6	6	23,505,905	23,474,716	6p22.3	6p22.3
LU4_AD	5	7	2	23,517,890	237,095,100	7p15.3	2q37.2
LU4_L	3	19	7	23,524,640	56,646,298	19p12	7p11.2
LU4_AD	3	15	15	23,601,241	34,683,737	15q11.2	15q14
LU3_L	3	24	6	23,611,791	48,843,348	Yq11.223	6p12.3
LU21_L	3	24	24	23,669,231	24,451,095	Yq11.223	Yq11.223
LU4_AD	10	20	20	23,683,260	22,265,804	20p11.21	20p11.22
LU4_L	3	20	20	23,683,933	22,266,558	20p11.21	20p11.22
LU5_L	3	7	7	23,715,683	24,472,363	7p15.3	7p15.3

LU21_L	3	24	24	23,718,376	25,670,516	Yq11.223	Yq11.223
LU7_AD	3	7	21	23,729,049	20,386,611	7p15.3	21q21.1
LU7_AD	37	10	12	23,729,238	73,581,325	10p12.2	12q21.1
LU7_L	71	10	12	23,729,507	73,583,195	10p12.2	12q21.1
LU7_L	3	7	12	23,733,895	67,223,688	7p15.3	12q14.3
LU5_AD	3	9	9	23,739,683	23,770,286	9p21.3	9p21.3
LU3_AD	3	4	4	23,752,134	23,783,950	4p15.2	4p15.2
LU7_L	3	8	8	23,758,567	23,795,815	8p21.2	8p21.2
LU7_L	8	7	12	23,758,799	67,574,179	7p15.3	12q14.3
LU18_AD	4	22	8	23,764,953	25,949,482	22q11.23	8p21.2
LU5_AD	3	9	9	23,770,286	23,739,683	9p21.3	9p21.3
LU3_AD	3	4	4	23,783,950	23,752,134	4p15.2	4p15.2
LU21_AD	3	20	10	23,791,291	69,446,550	20p11.21	10q21.3
LU7_L	3	8	8	23,795,815	23,758,567	8p21.2	8p21.2
LU18_L	4	22	22	23,803,371	20,741,799	22q11.23	22q11.21
LU7_AD	4	22	22	23,806,488	20,741,614	22q11.23	22q11.21
LU8_L	4	20	20	23,812,773	23,911,232	20p11.21	20p11.21
LU20_AD	3	18	17	23,818,721	30,091,493	18q11.2	17q11.2
LU4_AD	8	16	1	23,865,633	226,629,540	16p12.2	1q42.12
LU20_AD	4	24	2	23,876,064	56,946,067	Yq11.223	2p16.1
LU8_L	4	20	20	23,911,232	23,812,773	20p11.21	20p11.21
LU4_AD	3	19	19	23,920,704	21,141,525	19p12	19p12
LU7_L	7	10	7	23,948,226	28,092,898	10p12.2	7p15.1
LU3_L	4	2	6	23,954,314	84,458,690	2p24.1	6q14.2
LU20_AD	3	20	5	23,969,090	68,927,919	20p11.21	5q13.2
LU18_L	3	15	15	24,022,330	24,068,054	15q11.2	15q11.2
LU15_L	5	19	22	24,037,125	19,925,195	19p12	22q11.21
LU3_AD	5	16	16	24,065,525	24,101,188	16p12.2	16p12.2
LU18_L	3	15	15	24,068,054	24,022,330	15q11.2	15q11.2
LU21_AD	3	6	6	24,068,258	27,652,019	6p22.3	6p22.1
LU12_AD	3	13	14	24,098,231	32,179,818	13q12.12	14q12
LU3_AD	5	16	16	24,101,188	24,065,525	16p12.2	16p12.2
LU20_AD	4	8	15	24,101,232	55,804,308	8p21.2	15q21.3
LU3_L	4	6	6	24,186,304	24,218,600	6p22.3	6p22.3
LU4_L	4	22	2	24,198,454	47,811,979	22q11.23	2p16.3
LU3_L	4	6	6	24,218,600	24,186,304	6p22.3	6p22.3
LU6_AD	4	24	24	24,238,626	28,385,122	Yq11.223	Yq11.23
LU18_L	3	6	6	24,284,898	24,319,256	6p22.3	6p22.3
LU20_AD	12	21	21	24,290,171	24,238,073	21q21.2	21q21.2
LU20_L	5	21	21	24,290,366	24,240,354	21q21.2	21q21.2
LU18_AD	4	5	23	24,307,105	117,428,878	5p14.2	Xq24
LU21_AD	3	5	1	24,308,247	62,644,560	5p14.2	1p31.3
LU4_AD	3	19	19	24,313,527	22,937,122	19p12	19p12
LU18_L	3	6	6	24,319,256	24,284,898	6p22.3	6p22.3

LU18_AD	3	14	14	24,336,758	24,393,266	14q11.2	14q11.2
LU18_L	5	21	15	24,350,105	36,813,266	21q21.2	15q14
LU18_AD	6	21	15	24,350,131	36,813,514	21q21.2	15q14
LU7_AD	4	10	7	24,357,317	39,839,266	10p12.2	7p14.1
LU18_AD	3	14	14	24,393,266	24,336,758	14q11.2	14q11.2
LU7_L	38	10	12	24,416,232	61,604,354	10p12.2	12q14.1
LU7_AD	15	10	12	24,416,320	61,603,349	10p12.2	12q14.1
LU4_AD	3	14	9	24,444,717	131,613,748	14q11.2	9q34.11
LU21_L	3	24	24	24,451,095	23,669,231	Yq11.223	Yq11.223
LU20_AD	3	18	7	24,465,545	99,563,127	18q11.2	7q22.1
LU5_L	3	7	7	24,472,363	23,715,683	7p15.3	7p15.3
LU18_L	10	5	5	24,481,449	92,488,444	5p14.2	5q15
LU18_AD	7	5	5	24,483,106	92,489,178	5p14.2	5q15
LU14_AD	22	5	5	24,484,216	9,389,717	5p14.2	5p15.31
LU14_L	27	5	5	24,484,223	9,387,351	5p14.2	5p15.31
LU11_L	3	15	5	24,502,232	77,397,221	15q11.2	5q14.1
LU7_L	3	4	1	24,505,368	82,538,617	4p15.2	1p31.1
LU21_AD	3	24	24	24,506,480	25,650,333	Yq11.223	Yq11.223
LU3_L	5	20	20	24,538,627	24,572,361	20p11.21	20p11.21
LU7_AD	5	22	11	24,549,099	4,183,238	22q11.23	11p15.4
LU7_L	8	22	11	24,551,019	4,183,044	22q11.23	11p15.4
LU5_L	3	11	11	24,552,261	24,592,351	11p14.3	11p14.3
LU15_L	3	24	24	24,557,763	9,153,922	Yq11.223	Yp11.2
LU3_L	5	20	20	24,572,361	24,538,627	20p11.21	20p11.21
LU18_L	12	7	12	24,580,932	74,749,739	7p15.3	12q21.1
LU4_AD	3	7	7	24,589,675	24,620,833	7p15.3	7p15.3
LU5_L	3	11	11	24,592,351	24,552,261	11p14.3	11p14.3
LU4_AD	3	7	7	24,620,833	24,589,675	7p15.3	7p15.3
LU12_L	11	8	8	24,641,771	71,078,638	8p21.2	8q13.3
LU12_L	11	8	8	24,657,154	53,477,319	8p21.2	8q11.23
LU12_L	12	8	8	24,661,430	5,202,803	8p21.2	8p23.2
LU21_L	3	24	24	24,691,772	28,166,362	Yq11.223	Yq11.23
LU7_L	29	7	12	24,696,907	71,774,435	7p15.3	12q21.1
LU7_AD	15	7	12	24,697,221	71,774,181	7p15.3	12q21.1
LU6_AD	5	16	2	24,722,068	22,919,341	16p12.1	2p24.1
LU4_AD	4	7	7	24,776,985	24,806,525	7p15.3	7p15.3
LU4_AD	4	7	7	24,806,525	24,776,985	7p15.3	7p15.3
LU12_L	3	7	17	24,831,151	33,831,602	7p15.3	17q12
LU5_L	3	7	3	24,833,282	161,762,775	7p15.3	3q26.1
LU6_L	5	16	2	24,852,303	22,786,234	16p12.1	2p24.1
LU6_L	5	16	2	24,857,631	28,452,130	16p12.1	2p23.2
LU6_AD	3	16	2	24,857,987	28,451,945	16p12.1	2p23.2
LU6_L	3	16	2	24,873,446	25,849,537	16p12.1	2p23.3
LU6_L	9	16	2	24,873,710	28,454,159	16p12.1	2p23.2

LU6_AD	4	16	2	24,876,338	28,459,106	16p12.1	2p23.2
LU18_AD	22	21	7	24,881,272	16,399,306	21q21.2	7p21.2
LU18_L	29	21	7	24,881,835	16,398,586	21q21.2	7p21.2
LU21_AD	3	24	24	24,888,365	8,033,514	Yq11.223	Yp11.2
LU12_L	20	8	8	24,908,703	104,547,102	8p21.2	8q22.3
LU12_L	21	8	8	24,913,947	36,652,097	8p21.2	8p11.23
LU7_AD	5	7	7	24,925,577	40,938,659	7p15.3	7p14.1
LU14_AD	12	5	1	24,947,242	153,561,127	5p14.1	1q21.3
LU14_L	5	5	1	24,949,645	153,559,301	5p14.1	1q21.3
LU14_AD	4	5	1	24,952,604	155,407,281	5p14.1	1q22
LU6_AD	11	16	2	24,957,552	42,253,160	16p12.1	2p21
LU6_L	23	16	2	24,958,866	42,251,115	16p12.1	2p21
LU11_AD	18	23	23	24,972,603	25,002,338	Xp21.3	Xp21.3
LU3_L	5	6	10	24,976,951	32,480,568	6p22.3	10p11.22
LU11_AD	18	23	23	25,002,338	24,972,603	Xp21.3	Xp21.3
LU18_L	5	22	22	25,022,807	25,054,792	22q11.23	22q11.23
LU4_L	3	11	6	25,026,731	19,276,742	11p14.3	6p22.3
LU18_L	11	8	5	25,042,581	6,090,973	8p21.2	5p15.32
LU18_AD	10	8	5	25,045,322	6,089,243	8p21.2	5p15.32
LU18_L	5	22	22	25,054,792	25,022,807	22q11.23	22q11.23
LU20_L	3	2	2	25,055,567	25,088,913	2p23.3	2p23.3
LU20_L	3	2	2	25,088,913	25,055,567	2p23.3	2p23.3
LU7_L	3	7	7	25,121,011	4,989,897	7p15.3	7p22.1
LU8_L	5	11	11	25,145,446	25,179,511	11p14.3	11p14.3
LU4_AD	3	13	13	25,154,184	52,814,472	13q12.12	13q14.3
LU21_AD	3	13	13	25,163,373	52,800,855	13q12.12	13q14.3
LU7_AD	6	7	7	25,166,046	21,130,809	7p15.3	7p15.3
LU7_L	21	7	7	25,166,901	21,129,806	7p15.3	7p15.3
LU11_L	3	20	12	25,167,735	59,043,916	20p11.21	12q14.1
LU8_L	5	11	11	25,179,511	25,145,446	11p14.3	11p14.3
LU4_AD	3	24	12	25,231,357	8,940,290	Yq11.223	12p13.31
LU6_L	3	18	18	25,254,926	25,288,749	18q12.1	18q12.1
LU6_L	3	18	18	25,288,749	25,254,926	18q12.1	18q12.1
LU14_L	4	17	24	25,289,604	13,637,183	17q11.1	Yq11.21
LU4_AD	11	20	20	25,308,677	22,608,355	20p11.21	20p11.21
LU7_AD	6	10	12	25,333,058	64,831,466	10p12.1	12q14.2
LU7_L	6	10	12	25,335,707	64,831,177	10p12.1	12q14.2
LU7_L	14	7	7	25,360,560	4,251,049	7p15.3	7p22.2
LU7_AD	14	7	7	25,361,155	4,250,651	7p15.3	7p22.2
LU6_L	3	1	1	25,393,762	25,425,589	1p36.11	1p36.11
LU6_L	3	1	1	25,425,589	25,393,762	1p36.11	1p36.11
LU4_AD	4	23	4	25,443,695	179,145,623	Xp21.3	4q34.3
LU7_L	8	7	12	25,498,258	71,643,856	7p15.3	12q21.1
LU7_AD	3	7	12	25,498,393	71,643,890	7p15.3	12q21.1

LU3_L	3	23	23	25,544,052	25,577,594	Xp21.3	Xp21.3
LU20_AD	5	17	6	25,560,225	56,757,831	17q11.1	6p12.1
LU16_AD	6	9	9	25,562,915	45,692,675	9p21.3	9p11.2
LU3_L	3	23	23	25,577,594	25,544,052	Xp21.3	Xp21.3
LU21_AD	3	24	24	25,650,333	24,506,480	Yq11.223	Yq11.223
LU21_L	3	24	24	25,670,516	23,718,376	Yq11.223	Yq11.223
LU16_L	5	9	7	25,711,475	15,789,248	9p21.2	7p21.2
LU16_AD	16	9	7	25,711,677	15,788,957	9p21.2	7p21.2
LU7_L	3	22	22	25,714,683	23,239,693	22q11.23	22q11.22
LU20_AD	5	22	6	25,744,045	170,116,072	22q11.23	6q27
LU4_AD	4	20	4	25,762,716	190,675,816	20p11.1	4q35.2
LU21_L	3	20	4	25,762,822	190,677,777	20p11.1	4q35.2
LU16_AD	5	9	9	25,768,848	44,975,435	9p21.2	9p11.2
LU18_L	4	20	22	25,782,943	17,228,958	20p11.1	22q11.1
LU3_AD	3	20	22	25,783,843	17,230,042	20p11.1	22q11.1
LU15_AD	3	15	15	25,806,887	26,849,130	15q12	15q12
LU15_L	6	15	15	25,807,484	26,850,770	15q12	15q12
LU7_L	5	7	7	25,809,780	38,894,076	7p15.2	7p14.1
LU7_L	4	7	12	25,815,440	69,378,928	7p15.2	12q15
LU21_L	3	10	10	25,822,918	25,858,113	10p12.1	10p12.1
LU6_L	3	2	16	25,840,735	15,283,405	2p23.3	16p13.11
LU4_AD	6	1	1	25,849,425	51,368,972	1p36.11	1p32.3
LU6_L	3	2	16	25,849,537	24,873,446	2p23.3	16p12.1
LU6_L	8	2	2	25,853,900	38,567,641	2p23.3	2p22.2
LU21_L	3	10	10	25,858,113	25,822,918	10p12.1	10p12.1
LU6_L	5	2	2	25,859,199	27,951,623	2p23.3	2p23.2
LU18_AD	5	8	5	25,933,239	15,538,639	8p21.2	5p15.1
LU18_L	43	5	5	25,939,406	27,104,463	5p14.1	5p14.1
LU18_AD	47	5	5	25,940,282	27,104,054	5p14.1	5p14.1
LU18_AD	4	8	22	25,949,482	23,764,953	8p21.2	22q11.23
LU18_L	4	7	7	25,966,244	26,004,763	7p15.2	7p15.2
LU4_AD	3	17	17	26,002,777	18,294,988	17q11.2	17p11.2
LU18_L	4	7	7	26,004,763	25,966,244	7p15.2	7p15.2
LU11_AD	3	10	7	26,011,492	31,506,631	10p12.1	7p14.3
LU20_AD	3	17	1	26,017,992	181,220,789	17q11.2	1q25.3
LU18_AD	46	5	5	26,024,522	757,025	5p14.1	5p15.33
LU18_L	38	5	5	26,025,229	756,879	5p14.1	5p15.33
LU3_L	4	14	14	26,036,623	26,068,027	14q12	14q12
LU3_L	4	14	14	26,068,027	26,036,623	14q12	14q12
LU3_L	3	21	21	26,070,476	26,108,550	21q21.2	21q21.2
LU8_L	6	20	2	26,073,031	132,594,074	20p11.1	2q21.2
LU18_L	3	7	7	26,087,352	28,772,282	7p15.2	7p15.1
LU3_L	3	21	21	26,108,550	26,070,476	21q21.2	21q21.2
LU3_L	4	22	17	26,142,472	19,538,147	22q12.1	17p11.2

LU7_L	3	14	14	26,147,519	26,182,318	14q12	14q12
LU7_L	3	14	14	26,182,318	26,147,519	14q12	14q12
LU18_AD	3	9	4	26,186,677	66,744,542	9p21.2	4q13.2
LU15_AD	12	12	12	26,218,479	26,258,785	12p12.1	12p12.1
LU15_L	12	12	12	26,220,649	26,258,600	12p12.1	12p12.1
LU15_L	3	5	3	26,222,314	197,361,907	5p14.1	3q29
LU15_L	12	12	12	26,258,600	26,220,649	12p12.1	12p12.1
LU15_AD	12	12	12	26,258,785	26,218,479	12p12.1	12p12.1
LU6_AD	3	20	2	26,308,246	29,180,963	20p11.1	2p23.2
LU11_AD	9	1	1	26,330,239	47,595,051	1p36.11	1p33
LU14_AD	11	5	10	26,359,985	42,385,208	5p14.1	10q11.21
LU20_L	5	24	15	26,404,246	78,154,957	Yq11.23	15q24.3
LU21_AD	3	24	15	26,404,253	78,154,957	Yq11.23	15q24.3
LU15_L	3	7	7	26,417,676	26,448,205	7p15.2	7p15.2
LU15_L	3	7	7	26,448,205	26,417,676	7p15.2	7p15.2
LU7_L	5	7	12	26,470,502	68,586,903	7p15.2	12q15
LU11_AD	3	16	23	26,476,981	17,327,816	16p12.1	Xp22.13
LU4_AD	4	10	10	26,539,541	26,570,484	10p12.1	10p12.1
LU12_L	5	8	8	26,568,382	42,131,101	8p21.2	8p11.21
LU4_AD	4	10	10	26,570,484	26,539,541	10p12.1	10p12.1
LU21_AD	3	11	14	26,614,882	22,708,507	11p14.2	14q11.2
LU16_AD	3	18	18	26,779,811	26,835,624	18q12.1	18q12.1
LU16_AD	3	18	18	26,835,624	26,779,811	18q12.1	18q12.1
LU15_AD	3	15	15	26,849,130	25,806,887	15q12	15q12
LU15_L	6	15	15	26,850,770	25,807,484	15q12	15q12
LU8_L	3	2	2	26,895,877	26,931,740	2p23.3	2p23.3
LU20_AD	3	11	11	26,926,201	26,957,023	11p14.2	11p14.2
LU8_L	3	2	2	26,931,740	26,895,877	2p23.3	2p23.3
LU7_L	5	7	7	26,950,564	35,359,052	7p15.2	7p14.2
LU20_AD	3	11	11	26,957,023	26,926,201	11p14.2	11p14.2
LU18_AD	4	7	5	26,971,109	822,348	7p15.2	5p15.33
LU12_L	4	3	11	27,046,317	86,547,726	3p24.1	11q14.2
LU11_AD	14	18	12	27,075,148	66,424,547	18q12.1	12q14.3
LU18_AD	47	5	5	27,104,054	25,940,282	5p14.1	5p14.1
LU18_L	43	5	5	27,104,463	25,939,406	5p14.1	5p14.1
LU11_AD	3	6	9	27,155,360	95,285,522	6p22.1	9q22.31
LU18_AD	10	7	8	27,156,624	3,943,200	7p15.2	8p23.2
LU8_L	4	11	16	27,157,438	76,371,262	11p14.2	16q23.1
LU18_L	17	7	8	27,157,716	3,943,249	7p15.2	8p23.2
LU18_AD	6	5	12	27,212,730	64,934,060	5p14.1	12q14.2
LU3_L	3	12	12	27,236,517	20,479,620	12p11.23	12p12.2
LU15_AD	9	3	9	27,238,092	21,865,875	3p24.1	9p21.3
LU18_L	6	5	12	27,239,204	71,821,903	5p14.1	12q21.1
LU18_AD	12	5	12	27,239,691	71,823,149	5p14.1	12q21.1

LU18_AD	20	5	12	27,296,016	64,867,070	5p14.1	12q14.2
LU18_L	19	5	12	27,297,818	64,866,391	5p14.1	12q14.2
LU21_L	3	8	11	27,351,219	82,338,659	8p21.2	11q14.1
LU20_AD	4	2	2	27,377,555	27,421,646	2p23.3	2p23.3
LU20_AD	4	2	2	27,421,646	27,377,555	2p23.3	2p23.3
LU18_AD	3	5	5	27,527,513	551,433	5p14.1	5p15.33
LU18_AD	103	5	5	27,528,281	533,109	5p14.1	5p15.33
LU18_L	83	5	5	27,532,549	531,221	5p14.1	5p15.33
LU3_AD	3	24	15	27,577,456	84,920,838	Yq11.23	15q25.2
LU14_AD	3	8	8	27,578,265	27,619,002	8p21.1	8p21.1
LU18_AD	4	5	5	27,580,713	21,980,992	5p14.1	5p14.3
LU11_AD	3	21	8	27,603,204	3,098,843	21q21.3	8p23.2
LU14_AD	3	8	8	27,619,002	27,578,265	8p21.1	8p21.1
LU21_AD	3	6	6	27,652,019	24,068,258	6p22.1	6p22.3
LU20_L	3	16	16	27,676,667	27,717,938	16p12.1	16p12.1
LU18_AD	3	22	22	27,700,784	27,734,768	22q12.1	22q12.1
LU20_L	3	16	16	27,717,938	27,676,667	16p12.1	16p12.1
LU18_AD	3	22	22	27,734,768	27,700,784	22q12.1	22q12.1
LU3_L	4	10	19	27,753,581	20,200,556	10p12.1	19p12
LU4_AD	4	13	10	27,791,002	5,097,959	13q12.13	10p15.1
LU18_AD	3	16	16	27,831,661	27,864,434	16p12.1	16p12.1
LU18_AD	3	16	16	27,864,434	27,831,661	16p12.1	16p12.1
LU6_L	4	2	16	27,934,825	15,274,376	2p23.2	16p13.11
LU6_L	5	2	2	27,951,623	25,859,199	2p23.2	2p23.3
LU8_L	3	4	4	28,003,017	28,033,232	4p15.1	4p15.1
LU4_AD	3	18	18	28,015,198	28,049,172	18q12.1	18q12.1
LU8_L	3	4	4	28,033,232	28,003,017	4p15.1	4p15.1
LU4_AD	3	18	18	28,049,172	28,015,198	18q12.1	18q12.1
LU7_L	7	7	10	28,092,898	23,948,226	7p15.1	10p12.2
LU18_AD	3	3	3	28,143,099	28,203,031	3p24.1	3p24.1
LU21_L	3	24	24	28,166,362	24,691,772	Yq11.23	Yq11.223
LU11_AD	18	18	20	28,171,729	57,114,558	18q12.1	20q13.32
LU11_L	5	18	20	28,173,214	57,115,076	18q12.1	20q13.32
LU18_AD	3	3	3	28,203,031	28,143,099	3p24.1	3p24.1
LU21_L	3	7	7	28,207,616	28,247,521	7p15.1	7p15.1
LU15_AD	3	21	8	28,227,875	20,012,875	21q21.3	8p21.3
LU21_L	3	7	7	28,247,521	28,207,616	7p15.1	7p15.1
LU5_AD	3	12	12	28,297,676	28,338,546	12p11.22	12p11.22
LU5_AD	3	12	12	28,338,546	28,297,676	12p11.22	12p11.22
LU18_L	5	5	12	28,344,146	71,244,773	5p14.1	12q15
LU12_AD	4	19	6	28,370,893	118,905,200	19q11	6q22.31
LU6_AD	4	24	24	28,385,122	24,238,626	Yq11.23	Yq11.223
LU3_L	3	9	9	28,402,870	28,433,559	9p21.1	9p21.1
LU3_L	3	9	9	28,433,559	28,402,870	9p21.1	9p21.1

LU6_AD	3	2	16	28,451,945	24,857,987	2p23.2	16p12.1
LU6_L	5	2	16	28,452,130	24,857,631	2p23.2	16p12.1
LU14_L	3	19	19	28,453,058	28,494,092	19q11	19q11
LU11_AD	4	16	1	28,460,259	98,977,776	16p11.2	1p21.3
LU6_L	5	2	2	28,464,016	35,860,727	2p23.2	2p22.3
LU6_AD	3	2	2	28,465,380	35,859,732	2p23.2	2p22.3
LU18_AD	6	5	15	28,469,651	36,607,028	5p14.1	15q14
LU18_L	6	5	15	28,470,095	36,606,985	5p14.1	15q14
LU3_AD	6	10	10	28,485,520	23,152,004	10p12.1	10p12.2
LU14_L	3	19	19	28,494,092	28,453,058	19q11	19q11
LU4_AD	4	5	5	28,555,312	28,587,947	5p14.1	5p14.1
LU3_L	3	4	4	28,556,529	28,587,551	4p15.1	4p15.1
LU6_L	6	2	2	28,581,202	42,504,928	2p23.2	2p21
LU6_AD	4	2	2	28,581,687	42,504,489	2p23.2	2p21
LU7_AD	3	15	15	28,585,692	23,393,984	15q13.1	15q11.2
LU3_L	3	4	4	28,587,551	28,556,529	4p15.1	4p15.1
LU4_AD	4	5	5	28,587,947	28,555,312	5p14.1	5p14.1
LU6_L	6	2	16	28,594,188	16,307,037	2p23.2	16p13.11
LU18_L	6	5	15	28,602,245	36,531,529	5p14.1	15q14
LU18_AD	28	5	15	28,602,571	36,530,107	5p14.1	15q14
LU18_L	10	5	15	28,604,673	36,530,619	5p14.1	15q14
LU14_AD	6	22	1	28,616,068	208,266,490	22q12.1	1q32.2
LU3_AD	3	12	12	28,647,659	21,505,196	12p11.22	12p12.1
LU12_L	4	8	8	28,706,022	103,242,198	8p21.1	8q22.3
LU6_L	5	24	6	28,715,557	43,710,316	Yq11.23	6p21.1
LU18_L	3	7	7	28,772,282	26,087,352	7p15.1	7p15.2
LU18_L	3	11	11	28,797,734	29,049,246	11p14.1	11p14.1
LU7_L	10	7	12	28,844,035	63,825,095	7p14.3	12q14.2
LU7_AD	10	7	12	28,844,630	63,825,420	7p14.3	12q14.2
LU7_L	13	7	12	28,846,579	63,827,252	7p14.3	12q14.2
LU21_L	21	9	9	28,864,231	29,414,013	9p21.1	9p21.1
LU21_AD	13	9	9	28,864,242	29,415,016	9p21.1	9p21.1
LU14_AD	3	22	14	28,869,676	37,178,529	22q12.1	14q13.3
LU12_AD	3	14	11	28,888,290	61,818,759	14q12	11q12.3
LU18_L	3	15	15	28,946,196	100,333,770	15q13.1	15q26.3
LU8_L	19	23	23	28,958,925	29,090,139	Xp21.3	Xp21.3
LU8_AD	7	23	23	28,959,913	29,089,985	Xp21.3	Xp21.3
LU6_L	3	2	2	29,002,992	29,261,898	2p23.2	2p23.2
LU18_L	3	11	11	29,049,246	28,797,734	11p14.1	11p14.1
LU18_L	5	15	5	29,064,814	2,890,848	15q13.1	5p15.33
LU3_AD	16	22	8	29,065,206	126,533,705	22q12.1	8q24.13
LU3_L	5	22	8	29,065,460	126,533,223	22q12.1	8q24.13
LU20_AD	5	19	19	29,069,919	29,110,752	19q12	19q12
LU8_AD	7	23	23	29,089,985	28,959,913	Xp21.3	Xp21.3

LU8_L	19	23	23	29,090,139	28,958,925	Xp21.3	Xp21.3
LU20_AD	5	19	19	29,110,752	29,069,919	19q12	19q12
LU11_AD	9	1	1	29,125,897	16,555,228	1p35.3	1p36.13
LU12_L	9	8	8	29,149,722	20,442,107	8p12	8p21.3
LU4_AD	5	8	8	29,158,324	108,588,606	8p12	8q23.1
LU8_L	3	8	11	29,165,976	101,110,155	8p12	11q22.1
LU6_AD	3	2	20	29,180,963	26,308,246	2p23.2	20p11.1
LU3_AD	3	6	5	29,217,051	97,773,596	6p22.1	5q15
LU6_AD	4	1	11	29,236,293	79,041,291	1p35.3	11q14.1
LU6_L	3	2	2	29,261,898	29,002,992	2p23.2	2p23.2
LU11_L	4	18	12	29,335,194	107,173,990	18q12.1	12q23.3
LU16_L	3	6	6	29,378,074	29,413,355	6p22.1	6p22.1
LU21_AD	3	9	9	29,382,795	38,418,666	9p21.1	9p13.1
LU21_L	7	9	9	29,383,243	38,418,773	9p21.1	9p13.1
LU6_L	10	2	2	29,384,180	41,728,278	2p23.2	2p22.1
LU6_AD	5	2	2	29,384,800	41,726,568	2p23.2	2p22.1
LU21_L	4	9	9	29,385,045	42,758,534	9p21.1	9p12
LU16_L	3	6	6	29,413,355	29,378,074	6p22.1	6p22.1
LU21_L	21	9	9	29,414,013	28,864,231	9p21.1	9p21.1
LU21_AD	13	9	9	29,415,016	28,864,242	9p21.1	9p21.1
LU5_L	3	13	13	29,416,971	29,448,757	13q12.3	13q12.3
LU5_L	3	13	13	29,448,757	29,416,971	13q12.3	13q12.3
LU3_AD	6	12	12	29,469,258	47,030,982	12p11.22	12q13.11
LU12_L	3	5	5	29,560,054	21,504,648	5p13.3	5p14.3
LU21_AD	5	20	9	29,563,633	46,162,525	20q11.21	9p11.2
LU21_AD	7	9	5	29,577,779	167,819,303	9p21.1	5q34
LU12_L	7	17	17	29,613,705	5,254,565	17q11.2	17p13.2
LU21_L	3	13	13	29,625,750	29,655,253	13q12.3	13q12.3
LU16_L	8	7	5	29,651,313	4,968,824	7p14.3	5p15.32
LU21_L	3	13	13	29,655,253	29,625,750	13q12.3	13q12.3
LU16_AD	9	7	5	29,656,928	4,959,208	7p14.3	5p15.32
LU20_AD	3	7	3	29,684,296	101,352,258	7p14.3	3q12.3
LU18_L	17	11	5	29,695,938	16,469,266	11p14.1	5p15.1
LU18_AD	14	11	5	29,696,076	16,468,643	11p14.1	5p15.1
LU18_AD	4	16	3	29,725,762	97,905,262	16p11.2	3q11.2
LU16_L	5	7	20	29,748,368	4,377,366	7p14.3	20p13
LU16_AD	6	7	20	29,748,533	4,378,577	7p14.3	20p13
LU16_L	10	7	5	29,754,840	1,617,617	7p14.3	5p15.33
LU16_AD	13	7	5	29,756,227	1,616,951	7p14.3	5p15.33
LU3_AD	5	3	3	29,761,426	21,794,125	3p24.1	3p24.3
LU18_AD	4	21	2	29,767,683	149,014,357	21q21.3	2q23.1
LU20_AD	7	6	6	29,783,058	31,380,512	6p22.1	6p21.33
LU4_L	3	9	9	29,809,876	29,855,188	9p21.1	9p21.1
LU18_L	6	11	7	29,821,503	10,035,910	11p14.1	7p21.3

LU18_L	37	11	11	29,823,554	20,928,698	11p14.1	11p15.1
LU18_AD	50	11	11	29,824,455	20,927,899	11p14.1	11p15.1
LU21_L	4	6	1	29,843,456	55,096,213	6p22.1	1p32.3
LU12_L	3	6	5	29,847,070	113,049,663	6p22.1	5q22.2
LU18_L	3	6	4	29,847,149	45,046,673	6p22.1	4p12
LU14_AD	5	6	6	29,854,945	31,239,589	6p22.1	6p21.33
LU4_L	3	9	9	29,855,188	29,809,876	9p21.1	9p21.1
LU11_AD	7	13	13	29,897,740	30,056,019	13q12.3	13q12.3
LU11_L	4	13	13	29,903,977	30,054,507	13q12.3	13q12.3
LU3_L	3	20	20	29,966,111	29,996,788	20q11.21	20q11.21
LU5_L	3	18	13	29,992,407	53,212,120	18q12.1	13q14.3
LU3_L	3	20	20	29,996,788	29,966,111	20q11.21	20q11.21
LU11_L	4	13	13	30,054,507	29,903,977	13q12.3	13q12.3
LU11_AD	7	13	13	30,056,019	29,897,740	13q12.3	13q12.3
LU11_AD	17	13	1	30,063,596	109,822,555	13q12.3	1p13.3
LU11_L	14	13	1	30,063,929	109,823,005	13q12.3	1p13.3
LU6_L	3	2	16	30,073,293	33,682,155	2p23.1	16p11.2
LU15_L	4	18	10	30,082,588	101,026,518	18q12.1	10q24.2
LU20_AD	3	17	18	30,091,493	23,818,721	17q11.2	18q11.2
LU18_L	5	1	1	30,124,219	30,606,271	1p35.3	1p35.2
LU12_AD	3	14	14	30,154,774	30,187,002	14q12	14q12
LU12_AD	3	14	14	30,187,002	30,154,774	14q12	14q12
LU6_AD	7	2	2	30,190,099	22,790,820	2p23.1	2p24.1
LU6_L	8	2	2	30,190,342	22,791,396	2p23.1	2p24.1
LU6_L	14	2	2	30,190,969	38,776,862	2p23.1	2p22.1
LU6_AD	6	2	2	30,193,384	38,774,835	2p23.1	2p22.1
LU6_L	3	2	16	30,238,645	18,595,863	2p23.1	16p12.3
LU6_L	6	2	2	30,243,513	42,505,709	2p23.1	2p21
LU18_AD	3	1	1	30,288,883	30,341,393	1p35.2	1p35.2
LU18_L	4	3	10	30,319,711	86,946,182	3p24.1	10q23.1
LU6_L	9	2	2	30,325,395	42,585,633	2p23.1	2p21
LU18_AD	3	1	1	30,341,393	30,288,883	1p35.2	1p35.2
LU18_L	3	17	17	30,345,842	44,373,907	17q11.2	17q21.31
LU15_L	3	17	17	30,356,394	44,323,499	17q11.2	17q21.31
LU18_AD	3	5	5	30,369,649	30,399,434	5p13.3	5p13.3
LU20_AD	3	17	17	30,370,638	44,403,130	17q11.2	17q21.31
LU21_AD	5	12	12	30,377,741	30,412,983	12p11.22	12p11.22
LU18_AD	3	5	5	30,399,434	30,369,649	5p13.3	5p13.3
LU21_AD	5	12	12	30,412,983	30,377,741	12p11.22	12p11.22
LU7_L	6	3	3	30,481,572	117,087,916	3p24.1	3q13.31
LU5_L	5	5	3	30,483,511	101,418,614	5p13.3	3q12.3
LU5_L	4	19	19	30,483,615	30,516,824	19q12	19q12
LU3_L	4	5	3	30,489,984	101,416,488	5p13.3	3q12.3
LU7_L	5	5	3	30,492,848	101,416,320	5p13.3	3q12.3

LU20_AD	3	5	5	30,512,683	30,545,920	5p13.3	5p13.3
LU5_L	4	19	19	30,516,824	30,483,615	19q12	19q12
LU20_AD	3	5	5	30,545,920	30,512,683	5p13.3	5p13.3
LU18_AD	3	7	15	30,570,704	79,009,524	7p14.3	15q25.1
LU12_L	3	7	2	30,571,434	71,448,193	7p14.3	2p13.3
LU20_AD	3	7	7	30,576,786	135,948,312	7p14.3	7q33
LU3_AD	4	11	11	30,600,251	30,632,115	11p14.1	11p14.1
LU18_L	5	1	1	30,606,271	30,124,219	1p35.2	1p35.3
LU3_AD	4	11	11	30,632,115	30,600,251	11p14.1	11p14.1
LU20_L	3	5	5	30,636,053	30,666,896	5p13.3	5p13.3
LU20_L	3	5	5	30,666,896	30,636,053	5p13.3	5p13.3
LU5_L	3	1	1	30,729,153	31,110,646	1p35.2	1p35.2
LU18_AD	107	11	11	30,741,184	4,527,626	11p14.1	11p15.4
LU18_L	68	11	11	30,744,514	4,525,068	11p14.1	11p15.4
LU18_L	5	11	7	30,750,995	14,913,978	11p14.1	7p21.2
LU3_AD	5	12	12	30,777,969	50,155,877	12p11.21	12q13.12
LU3_AD	5	12	12	30,780,981	54,438,503	12p11.21	12q13.13
LU3_L	3	19	19	30,793,459	30,828,845	19q12	19q12
LU3_L	3	19	19	30,828,845	30,793,459	19q12	19q12
LU14_L	5	9	9	30,843,586	30,878,325	9p21.1	9p21.1
LU4_AD	3	7	17	30,847,188	48,490,167	7p14.3	17q21.33
LU3_L	4	6	6	30,849,118	30,879,664	6p21.33	6p21.33
LU3_L	33	2	2	30,850,200	30,807,910	2p23.1	2p23.1
LU3_AD	21	2	2	30,850,337	30,807,978	2p23.1	2p23.1
LU12_AD	3	7	7	30,874,173	30,927,682	7p14.3	7p14.3
LU14_L	5	9	9	30,878,325	30,843,586	9p21.1	9p21.1
LU3_L	4	6	6	30,879,664	30,849,118	6p21.33	6p21.33
LU12_AD	3	7	7	30,927,682	30,874,173	7p14.3	7p14.3
LU7_L	4	5	2	30,950,577	146,709,807	5p13.3	2q22.3
LU12_L	3	11	11	31,037,991	31,073,727	11p13	11p13
LU4_L	3	23	23	31,042,984	31,078,139	Xp21.2	Xp21.2
LU4_AD	3	1	1	31,058,262	31,107,759	1p35.2	1p35.2
LU12_L	3	11	11	31,073,727	31,037,991	11p13	11p13
LU12_L	3	7	7	31,074,809	31,117,138	7p14.3	7p14.3
LU4_L	3	23	23	31,078,139	31,042,984	Xp21.2	Xp21.2
LU14_L	3	15	15	31,082,107	72,947,109	15q13.2	15q24.1
LU4_AD	3	1	1	31,107,759	31,058,262	1p35.2	1p35.2
LU5_L	3	1	1	31,110,646	30,729,153	1p35.2	1p35.2
LU12_L	3	7	7	31,117,138	31,074,809	7p14.3	7p14.3
LU5_L	3	14	14	31,141,733	31,178,203	14q12	14q12
LU5_L	4	3	3	31,154,847	31,205,190	3p23	3p23
LU5_L	3	14	14	31,178,203	31,141,733	14q12	14q12
LU18_AD	3	5	5	31,186,301	18,550,025	5p13.3	5p14.3
LU20_AD	3	5	5	31,188,556	31,237,976	5p13.3	5p13.3

LU20_AD	7	17	17	31,204,766	32,172,739	17q11.2	17q12
LU5_L	4	3	3	31,205,190	31,154,847	3p23	3p23
LU20_AD	3	5	5	31,237,976	31,188,556	5p13.3	5p13.3
LU14_AD	5	6	6	31,239,589	29,854,945	6p21.33	6p22.1
LU21_L	3	17	17	31,278,603	31,310,823	17q11.2	17q11.2
LU8_L	3	11	11	31,293,118	31,330,137	11p13	11p13
LU21_L	3	17	17	31,310,823	31,278,603	17q11.2	17q11.2
LU11_L	14	18	12	31,316,914	107,450,035	18q12.1	12q23.3
LU7_AD	3	6	5	31,328,983	79,924,384	6p21.33	5q14.1
LU8_L	3	11	11	31,330,137	31,293,118	11p13	11p13
LU5_L	3	6	2	31,331,247	83,087,021	6p21.33	2p12
LU11_AD	3	6	2	31,331,370	83,088,198	6p21.33	2p12
LU15_AD	7	9	9	31,348,870	33,949,603	9p21.1	9p13.3
LU15_L	3	9	9	31,349,067	33,949,579	9p21.1	9p13.3
LU20_AD	7	6	6	31,380,512	29,783,058	6p21.33	6p22.1
LU11_L	13	18	12	31,383,761	107,331,037	18q12.1	12q23.3
LU15_L	7	9	9	31,385,771	2,472,867	9p21.1	9p24.2
LU3_L	3	3	3	31,393,972	31,447,346	3p23	3p23
LU18_L	4	5	1	31,394,141	211,515,128	5p13.3	1q32.3
LU18_AD	3	5	6	31,394,289	52,783,416	5p13.3	6p12.2
LU15_L	3	9	9	31,415,806	41,134,127	9p21.1	9p12
LU3_L	3	3	3	31,447,346	31,393,972	3p23	3p23
LU11_L	3	18	12	31,450,616	56,870,937	18q12.1	12q13.3
LU11_AD	3	7	10	31,506,631	26,011,492	7p14.3	10p12.1
LU16_AD	9	14	12	31,560,286	84,394,527	14q12	12q21.31
LU11_L	19	18	18	31,576,791	36,116,889	18q12.1	18q12.2
LU11_L	24	18	12	31,585,213	56,561,234	18q12.1	12q13.2
LU3_L	3	3	3	31,629,289	31,658,908	3p23	3p23
LU4_AD	4	10	1	31,649,117	152,054,267	10p11.22	1q21.3
LU3_L	3	3	3	31,658,908	31,629,289	3p23	3p23
LU15_AD	3	3	3	31,678,156	31,714,893	3p23	3p23
LU15_AD	3	3	3	31,714,893	31,678,156	3p23	3p23
LU20_L	3	8	8	31,763,755	31,798,001	8p12	8p12
LU6_L	3	17	17	31,774,629	31,805,889	17q11.2	17q12
LU20_L	3	8	8	31,798,001	31,763,755	8p12	8p12
LU6_L	3	17	17	31,805,889	31,774,629	17q12	17q11.2
LU6_AD	4	5	5	31,808,246	19,275,837	5p13.3	5p14.3
LU20_AD	4	13	13	31,822,811	109,745,511	13q12.3	13q33.3
LU16_AD	3	17	17	31,826,440	31,861,176	17q12	17q12
LU12_AD	6	15	15	31,837,780	98,707,714	15q13.3	15q26.3
LU21_AD	3	2	2	31,854,076	76,106,451	2p23.1	2p12
LU18_L	3	2	12	31,856,943	51,302,591	2p23.1	12q13.12
LU16_AD	3	17	17	31,861,176	31,826,440	17q12	17q12
LU4_AD	3	16	5	31,906,485	56,818,072	16p11.2	5q11.2

LU4_L	3	16	15	31,961,234	20,173,636	16p11.2	15q11.1
LU21_AD	3	16	15	31,961,967	20,171,322	16p11.2	15q11.1
LU20_AD	3	16	14	31,984,184	107,123,029	16p11.2	14q32.33
LU3_L	3	11	11	32,037,506	32,079,097	11p13	11p13
LU11_AD	3	8	8	32,071,349	32,109,330	8p12	8p12
LU3_L	3	11	11	32,079,097	32,037,506	11p13	11p13
LU20_AD	4	16	14	32,083,637	106,845,783	16p11.2	14q32.33
LU11_AD	3	8	8	32,109,330	32,071,349	8p12	8p12
LU11_L	4	18	12	32,110,796	56,974,406	18q12.1	12q13.3
LU11_L	7	18	12	32,115,502	56,923,347	18q12.1	12q13.3
LU20_AD	7	17	17	32,172,739	31,204,766	17q12	17q11.2
LU12_AD	3	14	13	32,179,818	24,098,231	14q12	13q12.12
LU20_AD	7	4	20	32,217,014	45,743,129	4p15.1	20q13.12
LU18_AD	3	14	14	32,226,942	32,262,533	14q12	14q12
LU18_AD	3	14	14	32,262,533	32,226,942	14q12	14q12
LU20_L	3	7	7	32,314,479	32,344,647	7p14.3	7p14.3
LU20_L	3	7	7	32,344,647	32,314,479	7p14.3	7p14.3
LU21_L	4	15	15	32,446,238	32,711,403	15q13.3	15q13.3
LU20_L	3	19	19	32,455,280	32,485,298	19q13.11	19q13.11
LU3_L	5	10	6	32,480,568	24,976,951	10p11.22	6p22.3
LU20_L	3	19	19	32,485,298	32,455,280	19q13.11	19q13.11
LU20_L	5	4	4	32,492,110	39,112,384	4p15.1	4p14
LU20_AD	5	4	4	32,492,288	39,111,777	4p15.1	4p14
LU3_L	3	22	6	32,507,495	93,044,187	22q12.3	6q15
LU8_L	4	22	6	32,508,079	93,043,667	22q12.3	6q15
LU7_L	3	6	6	32,520,438	17,600,615	6p21.32	6p22.3
LU5_L	3	6	6	32,520,917	17,601,249	6p21.32	6p22.3
LU6_AD	3	6	23	32,525,455	100,438,364	6p21.32	Xq22.1
LU15_AD	3	22	22	32,598,527	23,243,056	22q12.3	22q11.22
LU12_L	4	16	9	32,658,355	67,350,394	16p11.2	9q13
LU3_L	3	15	15	32,684,306	72,958,888	15q13.3	15q24.1
LU21_L	4	15	15	32,711,403	32,446,238	15q13.3	15q13.3
LU8_L	3	6	21	32,845,039	37,261,416	6p21.32	21q22.12
LU3_L	3	10	10	32,878,833	32,909,976	10p11.22	10p11.22
LU20_AD	3	17	17	32,880,536	32,917,867	17q12	17q12
LU18_AD	3	1	4	32,905,767	133,734,068	1p35.1	4q28.3
LU3_L	3	10	10	32,909,976	32,878,833	10p11.22	10p11.22
LU20_AD	3	17	17	32,917,867	32,880,536	17q12	17q12
LU6_L	5	16	2	32,957,986	38,606,030	16p11.2	2p22.1
LU18_AD	3	14	14	32,965,185	33,003,012	14q12	14q12
LU11_AD	10	18	12	32,981,552	107,570,265	18q12.2	12q23.3
LU18_AD	3	14	14	33,003,012	32,965,185	14q12	14q12
LU11_AD	21	18	18	33,012,245	36,543,063	18q12.2	18q12.2
LU11_AD	31	18	20	33,015,429	57,139,456	18q12.2	20q13.32

LU7_AD	4	10	12	33,015,910	68,647,257	10p11.22	12q15
LU7_L	7	10	12	33,017,277	68,647,011	10p11.22	12q15
LU11_L	5	18	20	33,018,221	57,139,489	18q12.2	20q13.32
LU7_AD	5	10	10	33,022,720	26,032,737	10p11.22	10p12.1
LU12_L	4	6	6	33,038,334	33,077,257	6p21.32	6p21.32
LU16_L	4	9	7	33,039,530	42,101,895	9p21.1	7p14.1
LU16_L	3	16	1	33,040,450	242,482,656	16p11.2	1q43
LU7_AD	5	6	6	33,050,588	33,087,933	6p21.32	6p21.32
LU16_L	4	9	21	33,051,774	16,250,584	9p21.1	21q11.2
LU4_L	3	16	2	33,068,779	91,663,025	16p11.2	2p11.1
LU7_AD	4	10	12	33,071,432	69,489,333	10p11.22	12q15
LU12_L	4	6	6	33,077,257	33,038,334	6p21.32	6p21.32
LU7_AD	5	6	6	33,087,933	33,050,588	6p21.32	6p21.32
LU18_AD	4	16	10	33,095,862	42,627,345	16p11.2	10q11.21
LU21_AD	3	17	2	33,119,601	207,580,405	17q12	2q33.3
LU16_AD	5	17	2	33,120,271	207,579,498	17q12	2q33.3
LU7_L	5	15	7	33,237,423	36,609,097	15q13.3	7p14.2
LU20_AD	3	21	21	33,309,503	33,348,496	21q22.11	21q22.11
LU5_L	4	13	13	33,337,043	33,367,426	13q13.1	13q13.1
LU20_AD	3	21	21	33,348,496	33,309,503	21q22.11	21q22.11
LU7_L	4	15	12	33,362,971	55,072,227	15q13.3	12q13.2
LU7_AD	4	15	12	33,363,444	55,072,387	15q13.3	12q13.2
LU5_L	4	13	13	33,367,426	33,337,043	13q13.1	13q13.1
LU8_L	3	9	2	33,400,885	95,495,439	9p13.3	2q11.1
LU8_L	4	9	9	33,401,208	43,105,654	9p13.3	9p12
LU5_L	3	9	9	33,401,983	43,105,161	9p13.3	9p12
LU21_L	3	16	18	33,515,639	14,173,303	16p11.2	18p11.21
LU12_AD	3	1	4	33,533,152	74,815,212	1p35.1	4q13.3
LU15_AD	12	9	20	33,537,594	59,512,602	9p13.3	20q13.33
LU7_L	6	15	12	33,538,457	68,030,252	15q13.3	12q15
LU15_L	5	9	20	33,538,952	59,515,182	9p13.3	20q13.33
LU21_L	4	16	14	33,591,730	106,526,778	16p11.2	14q32.33
LU8_L	3	21	21	33,594,672	33,625,090	21q22.11	21q22.11
LU18_L	4	16	14	33,598,487	106,521,894	16p11.2	14q32.33
LU11_AD	3	18	12	33,601,441	58,507,327	18q12.2	12q14.1
LU8_L	3	21	21	33,625,090	33,594,672	21q22.11	21q22.11
LU6_L	3	16	2	33,682,155	30,073,293	16p11.2	2p23.1
LU6_L	5	16	2	33,687,989	42,552,203	16p11.2	2p21
LU6_AD	3	16	2	33,688,719	42,551,595	16p11.2	2p21
LU11_AD	18	18	12	33,700,767	48,892,820	18q12.2	12q13.11
LU4_AD	6	7	7	33,705,262	14,067,271	7p14.3	7p21.2
LU4_AD	3	9	9	33,738,639	33,773,427	9p13.3	9p13.3
LU4_AD	3	9	9	33,773,427	33,738,639	9p13.3	9p13.3
LU20_AD	3	16	10	33,804,107	39,031,385	16p11.2	10p11.1

LU5_AD	4	6	6	33,804,294	33,834,690	6p21.31	6p21.31
LU12_L	3	16	10	33,804,661	39,030,861	16p11.2	10p11.1
LU7_L	4	16	10	33,805,844	39,029,739	16p11.2	10p11.1
LU12_L	3	17	7	33,831,602	24,831,151	17q12	7p15.3
LU5_AD	4	6	6	33,834,690	33,804,294	6p21.31	6p21.31
LU20_AD	3	2	1	33,883,635	119,724,618	2p22.3	1p12
LU18_AD	3	2	7	33,888,825	40,204,436	2p22.3	7p14.1
LU3_L	3	8	7	33,938,198	41,596,156	8p12	7p14.1
LU15_L	3	9	9	33,949,579	31,349,067	9p13.3	9p21.1
LU15_AD	7	9	9	33,949,603	31,348,870	9p13.3	9p21.1
LU14_L	3	22	22	33,970,176	37,966,793	22q12.3	22q13.1
LU18_L	3	8	8	33,970,513	34,035,548	8p12	8p12
LU11_AD	6	4	4	33,978,685	11,682,470	4p15.1	4p15.33
LU14_L	4	4	4	34,031,003	35,451,931	4p15.1	4p15.1
LU18_L	3	8	8	34,035,548	33,970,513	8p12	8p12
LU18_L	7	5	7	34,104,200	22,831,123	5p13.2	7p15.3
LU18_L	5	5	5	34,104,209	16,148,849	5p13.2	5p15.1
LU20_AD	4	2	21	34,142,498	10,137,939	2p22.3	21p11.2
LU14_L	4	17	17	34,181,761	34,211,580	17q12	17q12
LU16_L	3	5	7	34,182,840	63,573,378	5p13.2	7q11.21
LU14_L	7	4	4	34,210,419	34,339,335	4p15.1	4p15.1
LU14_L	4	17	17	34,211,580	34,181,761	17q12	17q12
LU14_AD	7	4	4	34,220,385	34,338,589	4p15.1	4p15.1
LU21_L	3	12	24	34,274,985	19,592,136	12p11.1	Yq11.221
LU3_L	3	18	18	34,298,809	34,333,866	18q12.2	18q12.2
LU4_AD	3	16	3	34,299,724	20,656,361	16p11.2	3p24.3
LU4_AD	3	16	23	34,305,378	72,536,844	16p11.2	Xq13.2
LU20_AD	3	12	18	34,315,131	46,338	12p11.1	18p11.32
LU3_L	3	18	18	34,333,866	34,298,809	18q12.2	18q12.2
LU14_AD	7	4	4	34,338,589	34,220,385	4p15.1	4p15.1
LU14_L	7	4	4	34,339,335	34,210,419	4p15.1	4p15.1
LU7_L	10	7	12	34,370,860	66,300,361	7p14.3	12q14.3
LU7_AD	7	7	12	34,372,186	66,299,816	7p14.3	12q14.3
LU16_AD	7	7	9	34,385,475	68,810,722	7p14.3	9q21.11
LU16_AD	6	7	9	34,386,000	69,146,868	7p14.3	9q21.11
LU18_AD	9	5	5	34,405,474	20,014,590	5p13.2	5p14.3
LU18_L	12	5	5	34,405,611	20,014,904	5p13.2	5p14.3
LU4_AD	13	16	16	34,419,833	62,073,284	16p11.2	16q21
LU7_AD	5	17	17	34,437,104	34,600,013	17q12	17q12
LU3_L	3	17	17	34,437,608	34,600,021	17q12	17q12
LU21_L	3	20	18	34,447,733	11,442,744	20q11.23	18p11.21
LU15_L	20	9	20	34,462,557	56,058,516	9p13.3	20q13.31
LU12_L	16	8	8	34,463,372	131,561,282	8p12	8q24.22
LU15_AD	15	9	20	34,466,309	56,055,511	9p13.3	20q13.31

LU14_L	4	18	18	34,495,349	34,527,484	18q12.2	18q12.2
LU16_AD	8	7	7	34,495,874	16,648,775	7p14.3	7p21.1
LU7_AD	3	15	12	34,499,974	71,404,475	15q14	12q15
LU14_L	4	18	18	34,527,484	34,495,349	18q12.2	18q12.2
LU21_AD	3	17	6	34,545,738	141,013,022	17q12	6q24.1
LU16_AD	17	7	9	34,546,308	12,202,921	7p14.3	9p23
LU16_AD	3	3	3	34,565,177	17,813,035	3p22.3	3p24.3
LU7_L	4	15	7	34,569,858	23,174,221	15q14	7p15.3
LU7_AD	5	17	17	34,600,013	34,437,104	17q12	17q12
LU3_L	3	17	17	34,600,021	34,437,608	17q12	17q12
LU4_AD	4	9	1	34,668,662	202,834,284	9p13.3	1q32.1
LU4_AD	3	15	15	34,683,737	23,601,241	15q14	15q11.2
LU3_L	3	14	14	34,722,826	34,759,272	14q13.1	14q13.1
LU18_AD	3	7	7	34,727,674	34,764,492	7p14.3	7p14.3
LU4_AD	4	23	23	34,758,053	36,950,201	Xp21.1	Xp21.1
LU3_L	3	14	14	34,759,272	34,722,826	14q13.1	14q13.1
LU4_L	4	19	10	34,760,361	43,171,719	19q13.11	10q11.21
LU4_AD	14	19	10	34,761,401	43,170,182	19q13.11	10q11.21
LU18_AD	3	7	7	34,764,492	34,727,674	7p14.3	7p14.3
LU4_AD	10	7	23	34,775,379	3,089,196	7p14.3	Xp22.33
LU20_AD	4	5	1	34,783,039	16,430,454	5p13.2	1p36.13
LU8_L	3	5	10	34,785,232	44,082,941	5p13.2	10q11.21
LU4_AD	3	11	11	34,826,404	34,872,182	11p13	11p13
LU7_L	3	12	4	34,832,304	190,816,730	12p11.1	4q35.2
LU6_L	9	21	13	34,832,936	38,935,120	21q22.11	13q13.3
LU4_AD	3	11	11	34,872,182	34,826,404	11p13	11p13
LU6_AD	4	22	20	34,915,045	16,925,574	22q12.3	20p12.1
LU6_L	10	22	20	34,916,813	16,923,567	22q12.3	20p12.1
LU20_AD	4	9	9	34,937,867	75,454,727	9p13.3	9q21.13
LU15_L	5	9	20	34,965,996	60,520,408	9p13.3	20q13.33
LU15_AD	12	9	20	34,967,382	60,517,764	9p13.3	20q13.33
LU12_AD	4	22	22	34,988,007	40,723,999	22q12.3	22q13.1
LU18_AD	4	19	11	35,005,857	83,131,151	19q13.11	11q14.1
LU4_AD	5	23	23	35,043,779	36,806,043	Xp21.1	Xp21.1
LU4_AD	3	19	7	35,114,754	149,222,061	19q13.11	7q36.1
LU20_AD	3	5	5	35,117,933	35,148,332	5p13.2	5p13.2
LU12_AD	3	4	4	35,145,340	100,408,442	4p15.1	4q23
LU11_AD	7	7	12	35,147,438	83,847,797	7p14.2	12q21.31
LU20_AD	3	5	5	35,148,332	35,117,933	5p13.2	5p13.2
LU18_AD	15	7	12	35,170,368	72,600,535	7p14.2	12q21.1
LU18_L	20	7	12	35,171,136	72,599,414	7p14.2	12q21.1
LU3_AD	3	4	4	35,180,797	35,233,430	4p15.1	4p15.1
LU4_AD	3	7	7	35,207,070	35,238,620	7p14.2	7p14.2
LU3_AD	3	4	4	35,233,430	35,180,797	4p15.1	4p15.1

LU4_AD	3	7	7	35,238,620	35,207,070	7p14.2	7p14.2
LU3_AD	3	23	23	35,245,051	35,278,709	Xp21.1	Xp21.1
LU18_AD	3	15	15	35,245,119	37,248,277	15q14	15q14
LU20_AD	3	22	22	35,268,160	35,299,810	22q12.3	22q12.3
LU4_L	3	7	7	35,271,786	35,304,176	7p14.2	7p14.2
LU3_AD	3	23	23	35,278,709	35,245,051	Xp21.1	Xp21.1
LU15_AD	8	20	20	35,284,537	46,863,426	20q11.23	20q13.13
LU15_L	3	20	20	35,286,962	46,860,769	20q11.23	20q13.13
LU20_AD	3	22	22	35,299,810	35,268,160	22q12.3	22q12.3
LU4_L	3	7	7	35,304,176	35,271,786	7p14.2	7p14.2
LU21_L	3	9	9	35,318,169	35,354,986	9p13.3	9p13.3
LU14_AD	3	13	5	35,320,850	93,683,125	13q13.2	5q15
LU21_L	3	9	9	35,354,986	35,318,169	9p13.3	9p13.3
LU7_L	5	7	7	35,359,052	26,950,564	7p14.2	7p15.2
LU7_AD	11	21	12	35,373,684	55,885,875	21q22.11	12q13.2
LU7_L	14	21	12	35,374,359	55,885,591	21q22.11	12q13.2
LU7_L	6	21	12	35,385,655	67,293,668	21q22.11	12q14.3
LU14_L	4	4	4	35,451,931	34,031,003	4p15.1	4p15.1
LU7_AD	3	9	1	35,453,431	91,673,855	9p13.3	1p22.2
LU8_L	3	9	7	35,460,836	89,257,340	9p13.3	7q21.13
LU18_L	3	4	4	35,493,971	35,538,875	4p15.1	4p15.1
LU18_L	3	4	4	35,538,875	35,493,971	4p15.1	4p15.1
LU4_AD	5	19	5	35,541,456	155,447,766	19q13.12	5q33.2
LU20_AD	3	20	20	35,567,962	21,066,047	20q11.23	20p11.23
LU12_AD	3	13	13	35,599,954	35,639,393	13q13.3	13q13.3
LU12_AD	10	20	1	35,628,396	12,473,414	20q11.23	1p36.22
LU12_AD	3	13	13	35,639,393	35,599,954	13q13.3	13q13.3
LU7_AD	4	7	12	35,651,175	69,516,627	7p14.2	12q15
LU4_AD	10	7	7	35,675,781	12,565,500	7p14.2	7p21.3
LU21_AD	7	5	5	35,694,885	35,946,070	5p13.2	5p13.2
LU3_AD	3	3	3	35,797,347	35,827,405	3p22.3	3p22.3
LU4_L	3	8	1	35,817,778	105,005,801	8p12	1p21.1
LU11_AD	9	18	12	35,819,336	56,409,767	18q12.2	12q13.2
LU11_L	13	18	12	35,820,046	56,404,650	18q12.2	12q13.2
LU11_L	7	18	12	35,821,655	48,709,623	18q12.2	12q13.11
LU11_L	6	18	12	35,821,721	68,839,118	18q12.2	12q15
LU11_AD	12	18	12	35,823,309	68,838,292	18q12.2	12q15
LU3_AD	3	3	3	35,827,405	35,797,347	3p22.3	3p22.3
LU11_AD	17	18	12	35,828,399	57,621,982	18q12.2	12q13.3
LU11_L	16	18	12	35,829,238	57,622,125	18q12.2	12q13.3
LU6_AD	3	2	2	35,859,732	28,465,380	2p22.3	2p23.2
LU6_L	5	2	2	35,860,727	28,464,016	2p22.3	2p23.2
LU21_L	9	5	5	35,867,430	52,062,954	5p13.2	5q11.2
LU11_L	4	18	12	35,884,870	62,586,101	18q12.2	12q14.1

LU21_AD	6	7	7	35,913,697	4,640,434	7p14.2	7p22.1
LU21_AD	7	5	5	35,946,070	35,694,885	5p13.2	5p13.2
LU18_L	4	15	11	35,949,191	42,749,851	15q14	11p12
LU18_AD	5	15	11	35,949,938	42,749,723	15q14	11p12
LU7_L	3	15	7	35,950,971	19,637,210	15q14	7p21.1
LU8_L	3	20	20	35,955,607	35,986,518	20q11.23	20q11.23
LU11_L	3	18	8	35,959,837	59,264,818	18q12.2	8q12.1
LU8_L	3	20	20	35,986,518	35,955,607	20q11.23	20q11.23
LU7_AD	3	5	18	35,994,435	77,751,586	5p13.2	18q23
LU7_L	5	15	7	36,002,557	22,738,600	15q14	7p15.3
LU21_AD	3	2	4	36,013,707	84,885,154	2p22.3	4q21.23
LU21_L	6	20	18	36,019,402	11,457,327	20q11.23	18p11.21
LU11_L	6	18	12	36,025,545	58,200,101	18q12.2	12q14.1
LU14_L	3	3	3	36,068,877	36,100,228	3p22.3	3p22.3
LU14_L	3	3	3	36,100,228	36,068,877	3p22.3	3p22.3
LU11_L	19	18	18	36,116,889	31,576,791	18q12.2	18q12.1
LU11_L	64	18	12	36,140,408	62,580,465	18q12.2	12q14.1
LU11_AD	35	18	12	36,142,124	62,580,187	18q12.2	12q14.1
LU20_L	3	21	21	36,181,293	36,212,918	21q22.12	21q22.12
LU8_L	3	2	2	36,190,917	36,241,983	2p22.3	2p22.3
LU20_L	3	21	21	36,212,918	36,181,293	21q22.12	21q22.12
LU8_L	3	2	2	36,241,983	36,190,917	2p22.3	2p22.3
LU4_L	5	10	10	36,245,384	36,275,314	10p11.21	10p11.21
LU12_L	12	8	8	36,250,754	65,781,082	8p12	8q12.3
LU7_L	4	7	12	36,271,666	51,156,187	7p14.2	12q13.12
LU4_L	5	10	10	36,275,314	36,245,384	10p11.21	10p11.21
LU21_AD	4	20	12	36,394,284	110,540,948	20q11.23	12q24.11
LU7_L	3	21	21	36,506,148	36,538,762	21q22.12	21q22.12
LU18_AD	3	3	14	36,506,415	97,660,380	3p22.2	14q32.2
LU5_AD	5	3	3	36,508,025	36,539,181	3p22.2	3p22.2
LU15_AD	15	20	20	36,515,040	44,813,783	20q11.23	20q13.12
LU15_L	8	20	20	36,515,507	44,813,353	20q11.23	20q13.12
LU8_L	3	10	10	36,526,483	36,557,349	10p11.21	10p11.21
LU18_AD	28	15	5	36,530,107	28,602,571	15q14	5p14.1
LU18_L	10	15	5	36,530,619	28,604,673	15q14	5p14.1
LU18_L	6	15	5	36,531,529	28,602,245	15q14	5p14.1
LU7_L	3	21	21	36,538,762	36,506,148	21q22.12	21q22.12
LU5_AD	5	3	3	36,539,181	36,508,025	3p22.2	3p22.2
LU11_AD	28	18	20	36,542,992	57,110,212	18q12.2	20q13.32
LU11_AD	21	18	18	36,543,063	33,012,245	18q12.2	18q12.2
LU15_AD	31	20	20	36,550,062	47,734,878	20q11.23	20q13.13
LU15_L	12	20	20	36,554,906	47,734,708	20q11.23	20q13.13
LU11_AD	9	18	12	36,557,080	115,609,764	18q12.2	12q24.21
LU8_L	3	10	10	36,557,349	36,526,483	10p11.21	10p11.21

LU11_AD	13	18	12	36,557,635	48,674,803	18q12.2	12q13.11
LU11_AD	26	18	12	36,578,560	83,356,733	18q12.2	12q21.31
LU18_L	6	15	5	36,606,985	28,470,095	15q14	5p14.1
LU18_AD	6	15	5	36,607,028	28,469,651	15q14	5p14.1
LU7_L	5	7	15	36,609,097	33,237,423	7p14.2	15q13.3
LU16_AD	16	14	14	36,636,603	36,792,148	14q13.3	14q13.3
LU12_L	21	8	8	36,652,097	24,913,947	8p11.23	8p21.2
LU20_L	3	20	20	36,766,058	36,800,390	20q11.23	20q11.23
LU4_L	3	23	23	36,788,225	36,818,826	Xp21.1	Xp21.1
LU16_AD	16	14	14	36,792,148	36,636,603	14q13.3	14q13.3
LU20_L	3	20	20	36,800,390	36,766,058	20q11.23	20q11.23
LU4_AD	5	23	23	36,806,043	35,043,779	Xp21.1	Xp21.1
LU18_L	5	15	21	36,813,266	24,350,105	15q14	21q21.2
LU18_AD	6	15	21	36,813,514	24,350,131	15q14	21q21.2
LU4_L	3	23	23	36,818,826	36,788,225	Xp21.1	Xp21.1
LU20_L	3	20	20	36,828,648	36,860,559	20q11.23	20q11.23
LU20_L	3	20	20	36,860,559	36,828,648	20q11.23	20q11.23
LU12_L	3	4	5	36,905,102	64,470,471	4p14	5q12.3
LU20_AD	3	15	19	36,906,516	42,011,818	15q14	19q13.2
LU21_L	4	5	5	36,944,540	41,315,610	5p13.2	5p13.1
LU4_AD	4	23	23	36,950,201	34,758,053	Xp21.1	Xp21.1
LU5_L	3	14	14	36,966,145	36,996,618	14q13.3	14q13.3
LU21_L	3	4	4	36,982,668	37,015,459	4p14	4p14
LU5_L	3	14	14	36,996,618	36,966,145	14q13.3	14q13.3
LU12_L	3	7	7	37,009,317	37,040,202	7p14.2	7p14.2
LU21_L	3	4	4	37,015,459	36,982,668	4p14	4p14
LU12_L	3	7	7	37,040,202	37,009,317	7p14.2	7p14.2
LU21_L	5	5	5	37,089,043	54,610,230	5p13.2	5q11.2
LU12_AD	3	7	7	37,094,646	37,133,912	7p14.2	7p14.2
LU12_AD	3	7	7	37,133,912	37,094,646	7p14.2	7p14.2
LU16_AD	3	7	23	37,174,966	8,254,909	7p14.2	Xp22.31
LU14_AD	3	14	22	37,178,529	28,869,676	14q13.3	22q12.1
LU18_L	4	15	5	37,179,914	874,833	15q14	5p15.33
LU18_AD	6	15	5	37,181,252	873,571	15q14	5p15.33
LU7_AD	5	15	12	37,181,377	68,449,114	15q14	12q15
LU7_L	6	7	7	37,209,780	48,707,134	7p14.1	7p12.3
LU7_AD	5	7	12	37,217,449	65,651,718	7p14.1	12q14.3
LU7_L	4	7	12	37,219,541	65,653,321	7p14.1	12q14.3
LU7_AD	4	7	12	37,230,977	55,224,414	7p14.1	12q13.2
LU7_L	12	7	12	37,231,370	55,226,604	7p14.1	12q13.2
LU18_L	24	15	5	37,236,463	777,043	15q14	5p15.33
LU18_AD	29	15	5	37,240,871	773,034	15q14	5p15.33
LU16_AD	35	7	7	37,241,362	12,237,314	7p14.1	7p21.3
LU18_AD	3	15	15	37,248,277	35,245,119	15q14	15q14

LU3_L	4	6	6	37,249,628	37,281,758	6p21.2	6p21.2
LU8_L	3	21	6	37,261,416	32,845,039	21q22.12	6p21.32
LU3_L	4	6	6	37,281,758	37,249,628	6p21.2	6p21.2
LU7_AD	3	7	7	37,335,736	37,591,820	7p14.1	7p14.1
LU7_L	6	7	7	37,341,357	181,319	7p14.1	7p22.3
LU20_AD	4	8	12	37,367,076	45,206,082	8p11.23	12q12
LU21_AD	3	18	18	37,393,525	37,434,264	18q12.3	18q12.3
LU16_AD	21	8	1	37,433,898	106,719,090	8p11.23	1p21.1
LU21_AD	3	18	18	37,434,264	37,393,525	18q12.3	18q12.3
LU16_L	21	8	1	37,434,501	106,718,757	8p11.23	1p21.1
LU3_L	3	5	23	37,504,332	104,650,950	5p13.2	Xq22.3
LU16_AD	3	5	11	37,504,834	112,055,414	5p13.2	11q23.1
LU7_L	4	5	11	37,505,772	112,053,491	5p13.2	11q23.1
LU7_L	7	7	7	37,558,684	21,052,052	7p14.1	7p15.3
LU21_L	3	10	24	37,564,937	16,008,622	10p11.21	Yq11.221
LU20_L	3	10	4	37,567,962	64,052,718	10p11.21	4q13.1
LU20_L	5	10	23	37,569,382	104,131,202	10p11.21	Xq22.3
LU12_AD	3	5	20	37,574,850	3,420,813	5p13.2	20p13
LU12_L	4	5	20	37,574,926	3,420,905	5p13.2	20p13
LU14_L	4	22	22	37,575,249	40,231,161	22q12.3	22q13.1
LU7_AD	3	7	7	37,591,820	37,335,736	7p14.1	7p14.1
LU21_AD	7	7	7	37,705,388	40,098,389	7p14.1	7p14.1
LU4_AD	5	1	1	37,729,199	37,761,426	1p34.3	1p34.3
LU11_L	11	8	8	37,748,224	58,972,249	8p11.23	8q12.1
LU4_AD	5	1	1	37,761,426	37,729,199	1p34.3	1p34.3
LU21_L	4	5	12	37,777,834	50,127,924	5p13.2	12q13.12
LU20_AD	4	5	5	37,780,614	64,473,535	5p13.2	5q12.3
LU4_AD	5	5	5	37,782,454	64,468,413	5p13.2	5q12.3
LU5_L	4	5	5	37,785,399	64,473,540	5p13.2	5q12.3
LU20_AD	3	5	5	37,817,593	37,854,331	5p13.2	5p13.2
LU18_AD	4	7	12	37,828,557	71,337,436	7p14.1	12q15
LU20_AD	3	5	5	37,854,331	37,817,593	5p13.2	5p13.2
LU14_L	3	22	22	37,966,793	33,970,176	22q13.1	22q12.3
LU20_L	3	5	5	38,021,491	38,056,361	5p13.2	5p13.2
LU4_L	4	10	15	38,038,838	21,196,796	10p11.1	15q11.2
LU4_AD	6	10	15	38,039,163	21,195,865	10p11.1	15q11.2
LU20_L	3	5	5	38,056,361	38,021,491	5p13.2	5p13.2
LU7_AD	5	7	12	38,099,573	61,930,214	7p14.1	12q14.1
LU7_L	4	7	12	38,100,591	61,929,028	7p14.1	12q14.1
LU16_AD	3	13	14	38,133,246	46,182,627	13q13.3	14q21.2
LU4_AD	3	19	19	38,195,944	38,229,926	19q13.12	19q13.12
LU4_AD	6	10	9	38,220,139	140,399,599	10p11.1	9q34.3
LU4_AD	3	19	19	38,229,926	38,195,944	19q13.12	19q13.12
LU4_AD	6	10	1	38,238,901	209,856,792	10p11.1	1q32.2

LU4_AD	3	9	10	38,241,137	101,600,012	9p13.2	10q24.2
LU4_AD	11	10	1	38,243,735	153,052,855	10p11.1	1q21.3
LU18_L	8	4	8	38,245,177	142,548,699	4p14	8q24.3
LU11_AD	4	3	6	38,335,750	106,678,590	3p22.2	6q21
LU7_AD	3	3	3	38,338,362	48,372,957	3p22.2	3p21.31
LU3_L	3	3	12	38,339,517	124,035,534	3p22.2	12q24.31
LU5_AD	4	20	19	38,352,701	21,597,231	20q12	19p12
LU12_L	3	1	2	38,378,970	47,812,574	1p34.3	2p16.3
LU16_AD	3	7	7	38,386,370	39,946,023	7p14.1	7p14.1
LU21_AD	3	9	9	38,418,666	29,382,795	9p13.1	9p21.1
LU21_L	7	9	9	38,418,773	29,383,243	9p13.1	9p21.1
LU15_L	7	9	20	38,437,240	56,046,141	9p13.1	20q13.31
LU15_AD	7	9	20	38,437,816	56,040,698	9p13.1	20q13.31
LU18_L	3	10	10	38,454,863	51,739,065	10p11.1	10q11.23
LU14_AD	6	14	16	38,488,548	67,081,527	14q21.1	16q22.1
LU6_L	3	7	7	38,498,609	38,536,431	7p14.1	7p14.1
LU6_L	10	2	2	38,507,160	42,510,486	2p22.2	2p21
LU6_L	3	7	7	38,536,431	38,498,609	7p14.1	7p14.1
LU4_AD	3	2	2	38,559,684	38,593,145	2p22.2	2p22.1
LU8_AD	4	10	16	38,567,192	46,463,252	10p11.1	16q11.2
LU6_L	8	2	2	38,567,641	25,853,900	2p22.2	2p23.3
LU7_AD	3	6	13	38,590,473	111,843,214	6p21.2	13q34
LU4_AD	3	2	2	38,593,145	38,559,684	2p22.1	2p22.2
LU15_AD	9	9	20	38,603,164	59,510,914	9p13.1	20q13.33
LU6_L	5	2	16	38,606,030	32,957,986	2p22.1	16p11.2
LU7_L	3	7	19	38,616,740	58,959,572	7p14.1	19q13.43
LU21_AD	3	12	12	38,648,795	38,699,508	12q12	12q12
LU4_L	3	12	10	38,673,319	43,167,969	12q12	10q11.21
LU4_AD	17	7	7	38,698,996	46,156,481	7p14.1	7p12.3
LU21_AD	3	12	12	38,699,508	38,648,795	12q12	12q12
LU12_AD	3	10	16	38,738,599	90,235,286	10p11.1	16q24.3
LU3_AD	3	12	12	38,751,078	74,904,723	12q12	12q21.1
LU6_AD	6	2	2	38,774,835	30,193,384	2p22.1	2p23.1
LU6_L	14	2	2	38,776,862	30,190,969	2p22.1	2p23.1
LU3_AD	3	12	12	38,823,825	70,310,300	12q12	12q15
LU12_L	9	8	8	38,841,279	9,282,956	8p11.22	8p23.1
LU4_AD	4	13	13	38,866,567	38,902,647	13q13.3	13q13.3
LU3_AD	4	12	12	38,878,332	20,863,629	12q12	12p12.2
LU3_L	3	1	2	38,886,269	225,162,492	1p34.3	2q36.1
LU3_AD	3	12	12	38,889,566	38,930,748	12q12	12q12
LU16_AD	3	10	18	38,892,850	15,198,597	10p11.1	18p11.21
LU7_L	5	7	7	38,894,076	25,809,780	7p14.1	7p15.2
LU4_AD	4	13	13	38,902,647	38,866,567	13q13.3	13q13.3
LU3_AD	3	12	12	38,930,748	38,889,566	12q12	12q12

LU6_L	9	13	21	38,935,120	34,832,936	13q13.3	21q22.11
LU12_L	6	8	8	38,951,961	40,285,491	8p11.22	8p11.21
LU21_AD	4	5	5	39,017,161	39,048,642	5p13.1	5p13.1
LU7_L	4	10	16	39,029,739	33,805,844	10p11.1	16p11.2
LU12_L	3	10	16	39,030,861	33,804,661	10p11.1	16p11.2
LU20_AD	3	10	16	39,031,385	33,804,107	10p11.1	16p11.2
LU21_AD	3	10	1	39,038,067	148,846,826	10p11.1	1q21.2
LU21_AD	6	9	5	39,044,641	179,155,246	9p13.1	5q35.3
LU21_L	6	9	5	39,045,847	179,153,939	9p13.1	5q35.3
LU21_AD	4	5	5	39,048,642	39,017,161	5p13.1	5p13.1
LU14_L	5	11	11	39,077,865	39,108,483	11p12	11p12
LU3_AD	5	12	12	39,086,108	74,253,895	12q12	12q21.1
LU12_AD	3	14	14	39,089,489	39,120,462	14q21.1	14q21.1
LU14_L	5	11	11	39,108,483	39,077,865	11p12	11p12
LU20_AD	5	4	4	39,111,777	32,492,288	4p14	4p15.1
LU20_L	5	4	4	39,112,384	32,492,110	4p14	4p15.1
LU3_L	6	8	8	39,113,634	39,143,669	8p11.22	8p11.22
LU12_AD	3	14	14	39,120,462	39,089,489	14q21.1	14q21.1
LU18_AD	11	5	5	39,136,118	88,580,309	5p13.1	5q14.3
LU18_L	12	5	5	39,136,522	88,580,629	5p13.1	5q14.3
LU3_L	6	8	8	39,143,669	39,113,634	8p11.22	8p11.22
LU20_AD	3	14	8	39,305,578	144,342,705	14q21.1	8q24.3
LU16_AD	4	9	9	39,351,451	43,667,228	9p13.1	9p11.2
LU16_AD	4	9	9	39,351,610	65,558,878	9p13.1	9q12
LU16_L	4	9	9	39,351,780	43,668,348	9p13.1	9p11.2
LU4_L	3	20	20	39,411,409	39,452,867	20q12	20q12
LU4_L	3	15	15	39,422,331	39,452,709	15q14	15q14
LU18_L	4	3	12	39,452,316	68,946,972	3p22.1	12q15
LU4_L	3	15	15	39,452,709	39,422,331	15q14	15q14
LU4_L	3	20	20	39,452,867	39,411,409	20q12	20q12
LU20_AD	3	5	4	39,453,205	149,260,151	5p13.1	4q31.23
LU12_L	34	8	8	39,582,797	15,018,600	8p11.22	8p22
LU3_AD	3	6	6	39,588,766	39,625,152	6p21.2	6p21.2
LU4_AD	4	3	5	39,624,362	160,671,933	3p22.1	5q34
LU3_AD	3	6	6	39,625,152	39,588,766	6p21.2	6p21.2
LU3_L	3	9	9	39,654,288	41,827,551	9p13.1	9p12
LU12_AD	4	8	4	39,730,930	100,107,686	8p11.21	4q23
LU7_AD	5	7	12	39,775,283	20,693,416	7p14.1	12p12.2
LU7_AD	4	7	10	39,839,266	24,357,317	7p14.1	10p12.2
LU14_L	12	22	22	39,854,797	40,085,787	22q13.1	22q13.1
LU18_L	3	7	2	39,876,623	131,392,269	7p14.1	2q21.1
LU16_AD	3	7	7	39,946,023	38,386,370	7p14.1	7p14.1
LU14_L	12	22	22	40,085,787	39,854,797	22q13.1	22q13.1
LU21_AD	7	7	7	40,098,389	37,705,388	7p14.1	7p14.1

LU3_L	3	5	1	40,107,016	160,671,144	5p13.1	1q23.3
LU4_AD	3	5	4	40,107,508	4,047,721	5p13.1	4p16.3
LU7_AD	4	7	7	40,160,397	144,209,843	7p14.1	7q35
LU18_AD	3	7	2	40,204,436	33,888,825	7p14.1	2p22.3
LU20_AD	3	9	9	40,218,976	65,869,783	9p13.1	9q12
LU14_L	4	22	22	40,231,161	37,575,249	22q13.1	22q12.3
LU12_L	21	8	8	40,284,330	12,595,431	8p11.21	8p23.1
LU12_L	6	8	8	40,285,491	38,951,961	8p11.21	8p11.22
LU21_L	4	3	4	40,294,147	156,386,129	3p22.1	4q32.1
LU18_AD	3	5	12	40,325,801	58,051,467	5p13.1	12q13.3
LU3_L	3	13	13	40,326,003	40,355,744	13q14.11	13q14.11
LU5_L	4	15	11	40,328,100	93,269,086	15q15.1	11q21
LU3_L	3	8	8	40,329,168	40,358,697	8p11.21	8p11.21
LU3_AD	3	12	12	40,333,825	68,587,829	12q12	12q15
LU20_AD	4	12	4	40,353,936	1,923,432	12q12	4p16.3
LU3_L	3	13	13	40,355,744	40,326,003	13q14.11	13q14.11
LU3_L	3	8	8	40,358,697	40,329,168	8p11.21	8p11.21
LU3_L	3	11	11	40,385,601	40,435,619	11p12	11p12
LU3_L	3	12	12	40,399,097	40,430,726	12q12	12q12
LU3_L	3	12	12	40,430,726	40,399,097	12q12	12q12
LU3_L	3	11	11	40,435,619	40,385,601	11p12	11p12
LU3_AD	5	12	12	40,451,561	73,489,536	12q12	12q21.1
LU3_AD	4	18	18	40,576,940	40,612,997	18q12.3	18q12.3
LU3_AD	4	18	18	40,612,997	40,576,940	18q12.3	18q12.3
LU4_AD	10	7	7	40,620,297	19,151,766	7p14.1	7p21.1
LU12_L	11	8	8	40,639,526	18,892,143	8p11.21	8p22
LU18_L	4	15	11	40,660,559	6,647,180	15q15.1	11p15.4
LU7_AD	4	15	7	40,712,074	40,715,653	15q15.1	7p14.1
LU7_AD	4	7	15	40,715,653	40,712,074	7p14.1	15q15.1
LU12_AD	4	22	22	40,723,999	34,988,007	22q13.1	22q12.3
LU18_L	14	15	5	40,732,617	751,751	15q15.1	5p15.33
LU21_AD	3	20	20	40,758,375	40,805,819	20q12	20q12
LU6_L	3	20	20	40,772,316	40,804,030	20q12	20q12
LU6_L	3	20	20	40,804,030	40,772,316	20q12	20q12
LU21_AD	3	20	20	40,805,819	40,758,375	20q12	20q12
LU15_L	5	6	1	40,828,606	210,365,755	6p21.1	1q32.2
LU15_L	5	6	3	40,829,562	167,148,241	6p21.1	3q26.1
LU12_AD	3	6	4	40,831,269	154,983,218	6p21.1	4q31.3
LU11_AD	3	6	11	40,833,255	68,395,816	6p21.1	11q13.2
LU16_AD	4	6	1	40,835,401	210,364,586	6p21.1	1q32.2
LU3_L	4	2	2	40,896,570	98,438,710	2p22.1	2q11.2
LU12_L	4	2	15	40,900,886	92,752,306	2p22.1	15q26.1
LU7_AD	5	7	7	40,938,659	24,925,577	7p14.1	7p15.3
LU18_L	7	18	15	41,016,919	58,943,378	18q12.3	15q21.3

LU3_L	4	7	7	41,093,521	41,133,430	7p14.1	7p14.1
LU4_AD	3	21	19	41,111,947	22,934,411	21q22.2	19p12
LU3_L	4	7	7	41,133,430	41,093,521	7p14.1	7p14.1
LU15_L	3	9	9	41,134,127	31,415,806	9p12	9p21.1
LU14_L	9	18	11	41,202,388	116,534,389	18q12.3	11q23.3
LU16_AD	7	3	3	41,215,115	41,317,488	3p22.1	3p22.1
LU15_AD	3	21	21	41,282,169	41,336,866	21q22.2	21q22.2
LU21_L	4	5	5	41,315,610	36,944,540	5p13.1	5p13.2
LU16_AD	7	3	3	41,317,488	41,215,115	3p22.1	3p22.1
LU15_AD	3	21	21	41,336,866	41,282,169	21q22.2	21q22.2
LU7_L	7	15	12	41,398,267	61,641,000	15q15.1	12q14.1
LU4_L	3	13	13	41,423,812	52,826,576	13q14.11	13q14.3
LU12_L	3	8	8	41,425,711	16,642,943	8p11.21	8p22
LU4_L	3	11	11	41,509,120	41,543,866	11p12	11p12
LU21_L	3	23	10	41,533,593	23,427,764	Xp11.4	10p12.2
LU4_L	3	11	11	41,543,866	41,509,120	11p12	11p12
LU3_L	3	7	8	41,596,156	33,938,198	7p14.1	8p12
LU4_AD	3	2	10	41,608,064	107,486,851	2p22.1	10q25.1
LU12_L	36	8	8	41,635,000	8,946,105	8p11.21	8p23.1
LU4_AD	3	12	12	41,645,207	41,675,808	12q12	12q12
LU14_L	4	20	19	41,650,123	42,998,849	20q12	19q13.2
LU14_AD	7	20	19	41,650,212	43,002,979	20q12	19q13.2
LU18_AD	3	11	5	41,670,043	21,660,757	11p12	5p14.3
LU4_AD	3	12	12	41,675,808	41,645,207	12q12	12q12
LU7_L	5	23	23	41,693,852	41,725,836	Xp11.4	Xp11.4
LU4_AD	4	14	10	41,705,124	94,990,957	14q21.1	10q23.33
LU7_L	5	23	23	41,725,836	41,693,852	Xp11.4	Xp11.4
LU6_AD	5	2	2	41,726,568	29,384,800	2p22.1	2p23.2
LU6_L	10	2	2	41,728,278	29,384,180	2p22.1	2p23.2
LU7_L	3	7	12	41,820,913	20,315,182	7p14.1	12p12.2
LU3_L	3	9	9	41,827,551	39,654,288	9p12	9p13.1
LU3_AD	3	12	12	41,913,343	44,712,653	12q12	12q12
LU16_AD	16	9	9	41,942,156	8,373,985	9p12	9p24.1
LU16_AD	3	9	9	41,942,816	15,999,498	9p12	9p22.3
LU4_L	3	9	4	41,951,596	132,635,182	9p12	4q28.3
LU4_AD	4	19	9	41,966,048	108,554,117	19q13.2	9q31.2
LU21_AD	5	19	6	41,967,424	58,583,054	19q13.2	6p11.2
LU3_L	3	19	5	41,967,992	135,136,036	19q13.2	5q31.1
LU3_L	5	19	5	41,970,292	146,611,801	19q13.2	5q32
LU20_AD	3	19	9	41,971,186	69,191,285	19q13.2	9q21.11
LU18_L	3	19	5	41,971,354	146,609,849	19q13.2	5q32
LU6_AD	5	5	5	42,011,709	178,785,134	5p13.1	5q35.3
LU20_AD	3	19	15	42,011,818	36,906,516	19q13.2	15q14
LU8_L	3	19	2	42,012,220	231,438,156	19q13.2	2q37.1

LU20_AD	5	19	1	42,012,842	154,129,802	19q13.2	1q21.3
LU15_L	5	19	1	42,013,023	154,129,610	19q13.2	1q21.3
LU7_L	5	19	1	42,013,351	154,129,260	19q13.2	1q21.3
LU11_AD	5	19	2	42,014,390	231,437,891	19q13.2	2q37.1
LU21_L	4	19	1	42,014,912	154,129,227	19q13.2	1q21.3
LU8_L	4	19	1	42,016,420	154,145,341	19q13.2	1q21.3
LU3_L	3	19	1	42,016,458	154,130,076	19q13.2	1q21.3
LU7_AD	5	19	8	42,018,474	108,585,571	19q13.2	8q23.1
LU3_AD	3	9	9	42,025,150	46,451,499	9p12	9p11.2
LU7_L	4	7	7	42,037,078	42,092,968	7p14.1	7p14.1
LU3_L	5	21	21	42,044,995	42,082,879	21q22.2	21q22.2
LU21_L	3	18	18	42,079,326	42,119,320	18q12.3	18q12.3
LU3_L	5	21	21	42,082,879	42,044,995	21q22.2	21q22.2
LU7_L	4	7	7	42,092,968	42,037,078	7p14.1	7p14.1
LU18_L	4	17	1	42,097,138	226,724,201	17q21.31	1q42.12
LU16_L	4	7	9	42,101,895	33,039,530	7p14.1	9p21.1
LU3_L	3	5	11	42,109,111	85,321,194	5p13.1	11q14.1
LU21_AD	3	5	2	42,111,362	9,039,237	5p13.1	2p25.1
LU4_L	5	9	9	42,111,491	45,516,647	9p12	9p11.2
LU12_L	4	6	14	42,119,223	57,799,594	6p21.1	14q22.3
LU21_L	3	18	18	42,119,320	42,079,326	18q12.3	18q12.3
LU16_L	3	7	9	42,120,362	65,885,039	7p14.1	9q12
LU3_L	5	12	12	42,128,082	42,158,407	12q12	12q12
LU12_L	5	8	8	42,131,101	26,568,382	8p11.21	8p21.2
LU5_AD	3	20	20	42,141,179	42,172,293	20q13.12	20q13.12
LU20_AD	3	11	8	42,144,779	129,628,942	11p12	8q24.21
LU3_L	5	12	12	42,158,407	42,128,082	12q12	12q12
LU5_AD	3	20	20	42,172,293	42,141,179	20q13.12	20q13.12
LU4_L	5	18	13	42,186,460	21,884,939	18q12.3	13q12.11
LU5_L	3	21	21	42,209,213	42,239,562	21q22.2	21q22.2
LU11_AD	3	12	12	42,218,061	42,253,288	12q12	12q12
LU5_L	3	21	21	42,239,562	42,209,213	21q22.2	21q22.2
LU6_L	23	2	16	42,251,115	24,958,866	2p21	16p12.1
LU6_AD	11	2	16	42,253,160	24,957,552	2p21	16p12.1
LU11_AD	3	12	12	42,253,288	42,218,061	12q12	12q12
LU16_AD	3	4	8	42,289,151	81,649,805	4p13	8q21.13
LU15_AD	4	9	20	42,298,738	61,899,660	9p12	20q13.33
LU18_AD	3	4	7	42,319,609	43,857,995	4p13	7p13
LU14_AD	6	10	1	42,358,772	143,737,381	10q11.21	1q21.1
LU3_L	4	9	25	42,365,460	1,227,628	9p12	25
LU14_L	5	10	1	42,369,435	143,162,686	10q11.21	1q21.1
LU21_AD	3	23	23	42,372,447	42,416,355	Xp11.4	Xp11.3
LU14_AD	7	10	1	42,378,813	143,161,423	10q11.21	1q21.1
LU14_L	4	10	1	42,383,599	155,406,759	10q11.21	1q22

LU14_AD	11	10	5	42,385,208	26,359,985	10q11.21	5p14.1
LU3_L	3	1	15	42,411,118	67,265,436	1p34.2	15q22.32
LU21_AD	3	23	23	42,416,355	42,372,447	Xp11.3	Xp11.4
LU15_L	4	8	15	42,417,052	92,754,632	8p11.21	15q26.1
LU6_L	9	2	2	42,426,471	38,172,570	2p21	2p22.2
LU4_AD	3	5	5	42,484,924	42,517,801	5p13.1	5p12
LU6_L	10	2	2	42,510,486	38,507,160	2p21	2p22.2
LU4_AD	3	5	5	42,517,801	42,484,924	5p12	5p13.1
LU20_AD	5	3	3	42,530,556	42,564,626	3p22.1	3p22.1
LU6_AD	3	2	16	42,551,595	33,688,719	2p21	16p11.2
LU6_L	5	2	16	42,552,203	33,687,989	2p21	16p11.2
LU6_L	15	2	2	42,554,761	29,550,885	2p21	2p23.2
LU6_AD	9	2	2	42,555,236	29,551,088	2p21	2p23.2
LU3_AD	3	6	6	42,557,261	42,592,103	6p21.1	6p21.1
LU20_AD	5	3	3	42,564,626	42,530,556	3p22.1	3p22.1
LU12_L	11	8	8	42,571,235	18,895,081	8p11.21	8p22
LU12_L	7	8	8	42,575,552	16,638,349	8p11.21	8p22
LU6_L	9	2	2	42,585,633	30,325,395	2p21	2p23.1
LU3_AD	3	6	6	42,592,103	42,557,261	6p21.1	6p21.1
LU18_AD	4	10	16	42,627,345	33,095,862	10q11.21	16p11.2
LU12_L	5	23	12	42,628,842	118,918,914	Xp11.3	12q24.23
LU21_AD	4	7	7	42,630,786	45,785,045	7p14.1	7p12.3
LU14_L	3	18	18	42,662,473	42,713,614	18q12.3	18q12.3
LU15_AD	3	9	9	42,664,294	70,859,424	9p12	9q21.11
LU18_AD	3	9	9	42,679,048	70,875,200	9p12	9q21.11
LU14_L	3	18	18	42,713,614	42,662,473	18q12.3	18q12.3
LU8_L	3	10	21	42,726,484	15,429,244	10q11.21	21q11.2
LU18_AD	5	11	15	42,749,723	35,949,938	11p12	15q14
LU18_L	4	11	15	42,749,851	35,949,191	11p12	15q14
LU21_L	4	9	9	42,758,534	29,385,045	9p12	9p21.1
LU5_L	3	9	9	42,775,952	67,328,729	9p12	9q13
LU20_L	3	11	10	42,901,704	5,094,717	11p12	10p15.1
LU7_L	3	7	7	42,924,387	19,428,946	7p14.1	7p21.1
LU11_AD	17	12	20	42,996,032	60,145,128	12q12	20q13.33
LU14_L	4	19	20	42,998,849	41,650,123	19q13.2	20q12
LU14_AD	7	19	20	43,002,979	41,650,212	19q13.2	20q12
LU11_L	6	12	12	43,021,806	67,259,192	12q12	12q14.3
LU11_AD	12	12	12	43,024,796	67,257,705	12q12	12q14.3
LU11_L	11	12	12	43,029,660	56,436,034	12q12	12q13.2
LU11_AD	14	12	12	43,029,754	56,437,692	12q12	12q13.2
LU4_AD	4	19	1	43,032,863	74,771,728	19q13.2	1p31.1
LU11_L	7	12	12	43,045,311	56,429,740	12q12	12q13.2
LU11_L	8	12	20	43,058,591	56,527,461	12q12	20q13.32
LU5_L	7	9	9	43,105,104	67,288,375	9p12	9q13

LU18_L	8	9	9	43,105,142	67,287,757	9p12	9q13
LU6_AD	3	9	9	43,105,159	67,288,917	9p12	9q13
LU5_L	3	9	9	43,105,161	33,401,983	9p12	9p13.3
LU8_L	4	9	9	43,105,654	33,401,208	9p12	9p13.3
LU8_L	9	9	9	43,105,858	67,287,758	9p12	9q13
LU5_AD	11	9	9	43,105,897	67,288,247	9p12	9q13
LU18_AD	4	9	9	43,106,644	67,286,639	9p12	9q13
LU6_L	7	9	9	43,106,861	67,287,091	9p12	9q13
LU18_L	4	9	24	43,140,344	13,269,870	9p12	Yq11.1
LU4_L	3	10	12	43,167,969	38,673,319	10q11.21	12q12
LU18_L	4	11	8	43,169,494	83,282,360	11p12	8q21.13
LU4_AD	14	10	19	43,170,182	34,761,401	10q11.21	19q13.11
LU4_L	4	10	19	43,171,719	34,760,361	10q11.21	19q13.11
LU20_AD	4	11	13	43,177,546	93,746,063	11p12	13q31.3
LU14_L	4	12	1	43,180,840	148,631,954	12q12	1q21.2
LU14_L	3	12	1	43,182,475	149,539,327	12q12	1q21.2
LU12_L	5	11	5	43,183,867	113,485,802	11p12	5q22.3
LU11_L	16	12	12	43,210,338	58,848,881	12q12	12q14.1
LU11_AD	49	12	12	43,212,187	55,820,011	12q12	12q13.2
LU11_L	37	12	12	43,212,668	55,820,145	12q12	12q13.2
LU14_AD	3	11	11	43,279,635	43,310,451	11p12	11p12
LU14_AD	3	11	11	43,310,451	43,279,635	11p12	11p12
LU12_L	3	1	1	43,323,343	225,072,508	1p34.2	1q42.12
LU4_AD	3	15	10	43,347,705	11,725,971	15q15.2	10p14
LU4_AD	3	1	17	43,351,931	76,109,356	1p34.2	17q25.3
LU3_L	3	10	10	43,412,172	43,448,278	10q11.21	10q11.21
LU18_L	5	11	7	43,417,261	23,498,666	11p12	7p15.3
LU18_AD	4	11	7	43,418,379	23,497,584	11p12	7p15.3
LU3_L	3	10	10	43,448,278	43,412,172	10q11.21	10q11.21
LU3_AD	4	12	12	43,551,639	22,785,179	12q12	12p12.1
LU4_AD	13	10	9	43,624,198	129,401,997	10q11.21	9q33.3
LU4_AD	5	3	14	43,641,597	22,163,640	3p22.1	14q11.2
LU18_L	3	19	19	43,645,229	43,742,568	19q13.31	19q13.31
LU16_AD	4	9	9	43,667,228	39,351,451	9p11.2	9p13.1
LU16_L	4	9	9	43,668,348	39,351,780	9p11.2	9p13.1
LU6_L	5	6	24	43,710,316	28,715,557	6p21.1	Yq11.23
LU18_L	3	19	19	43,742,568	43,645,229	19q13.31	19q13.31
LU12_AD	4	20	20	43,798,337	43,841,533	20q13.12	20q13.12
LU3_AD	3	12	12	43,821,179	45,264,102	12q12	12q12
LU3_L	3	6	15	43,834,931	88,944,798	6p21.1	15q25.3
LU12_AD	4	20	20	43,841,533	43,798,337	20q13.12	20q13.12
LU15_L	3	17	17	43,844,765	43,895,876	17q21.31	17q21.31
LU18_AD	3	7	4	43,857,995	42,319,609	7p13	4p13
LU12_L	3	7	9	43,861,270	88,976,894	7p13	9q21.33

LU15_L	3	17	17	43,895,876	43,844,765	17q21.31	17q21.31
LU8_L	3	10	5	44,082,941	34,785,232	10q11.21	5p13.2
LU4_AD	3	10	13	44,090,899	99,410,223	10q11.21	13q32.3
LU16_AD	19	9	9	44,227,709	8,380,924	9p11.2	9p24.1
LU16_L	5	9	9	44,233,160	15,999,462	9p11.2	9p22.3
LU16_AD	28	9	9	44,233,967	15,997,279	9p11.2	9p22.3
LU18_L	3	7	7	44,273,117	44,303,801	7p13	7p13
LU4_AD	13	7	7	44,299,564	77,157	7p13	7p22.3
LU18_L	3	7	7	44,303,801	44,273,117	7p13	7p13
LU15_L	3	17	17	44,323,499	30,356,394	17q21.31	17q11.2
LU8_AD	10	1	1	44,342,727	44,312,571	1p34.1	1p34.1
LU8_L	8	1	1	44,343,936	44,313,500	1p34.1	1p34.1
LU12_AD	3	18	12	44,355,424	74,254,366	18q21.1	12q21.1
LU21_AD	3	11	11	44,370,979	44,410,101	11p11.2	11p11.2
LU18_L	3	17	17	44,373,907	30,345,842	17q21.31	17q11.2
LU20_AD	3	17	17	44,403,130	30,370,638	17q21.31	17q11.2
LU21_AD	3	11	11	44,410,101	44,370,979	11p11.2	11p11.2
LU16_AD	27	9	9	44,414,232	8,383,159	9p11.2	9p24.1
LU16_AD	22	9	9	44,423,046	17,614,314	9p11.2	9p22.2
LU16_L	4	19	19	44,529,936	44,565,835	19q13.31	19q13.31
LU16_L	4	19	19	44,565,835	44,529,936	19q13.31	19q13.31
LU4_AD	3	20	20	44,631,345	44,667,717	20q13.12	20q13.12
LU4_AD	3	20	20	44,667,717	44,631,345	20q13.12	20q13.12
LU3_AD	3	12	12	44,712,653	41,913,343	12q12	12q12
LU4_AD	4	20	20	44,813,160	44,844,010	20q13.12	20q13.12
LU15_L	8	20	20	44,813,353	36,515,507	20q13.12	20q11.23
LU15_AD	15	20	20	44,813,783	36,515,040	20q13.12	20q11.23
LU7_L	8	9	12	44,843,503	52,020,100	9p11.2	12q13.13
LU4_AD	4	20	20	44,844,010	44,813,160	20q13.12	20q13.12
LU4_L	3	23	23	44,864,676	148,958,930	Xp11.3	Xq28
LU18_L	3	2	3	44,871,369	167,265,523	2p21	3q26.1
LU11_AD	3	10	10	44,887,565	44,918,533	10q11.21	10q11.21
LU21_L	3	9	17	44,903,714	21,874,415	9p11.2	17p11.2
LU18_L	9	19	5	44,913,952	2,640,292	19q13.31	5p15.33
LU18_AD	10	19	5	44,913,976	2,640,505	19q13.31	5p15.33
LU11_AD	3	10	10	44,918,533	44,887,565	10q11.21	10q11.21
LU5_L	4	15	15	44,949,063	45,004,388	15q21.1	15q21.1
LU16_AD	5	9	9	44,975,435	25,768,848	9p11.2	9p21.2
LU5_L	4	15	15	45,004,388	44,949,063	15q21.1	15q21.1
LU7_L	4	9	12	45,027,525	51,220,261	9p11.2	12q13.12
LU7_AD	5	9	12	45,030,110	51,218,276	9p11.2	12q13.12
LU4_L	3	4	10	45,032,643	91,752,114	4p12	10q23.31
LU18_L	3	4	6	45,046,673	29,847,149	4p12	6p22.1
LU12_L	4	4	4	45,049,137	92,099,636	4p12	4q22.1

LU7_L	4	9	4	45,057,008	185,487,713	9p11.2	4q35.1
LU12_L	3	9	4	45,061,151	185,479,391	9p11.2	4q35.1
LU8_AD	3	23	23	45,101,677	45,131,462	Xp11.3	Xp11.3
LU8_AD	3	23	23	45,131,462	45,101,677	Xp11.3	Xp11.3
LU3_L	4	19	2	45,135,823	20,126,242	19q13.31	2p24.1
LU4_AD	4	23	23	45,203,105	45,243,341	Xp11.3	Xp11.3
LU20_AD	4	12	8	45,206,082	37,367,076	12q12	8p11.23
LU3_L	3	6	6	45,240,043	83,424,431	6p21.1	6q14.1
LU4_AD	4	23	23	45,243,341	45,203,105	Xp11.3	Xp11.3
LU3_AD	3	12	12	45,264,102	43,821,179	12q12	12q12
LU20_AD	5	7	7	45,287,544	45,317,830	7p13	7p13
LU20_AD	5	7	7	45,317,830	45,287,544	7p13	7p13
LU4_AD	3	7	5	45,361,843	167,934,106	7p13	5q34
LU12_L	3	10	10	45,380,672	45,411,749	10q11.21	10q11.21
LU21_AD	3	17	17	45,408,770	45,444,590	17q21.32	17q21.32
LU12_L	3	10	10	45,411,749	45,380,672	10q11.21	10q11.21
LU18_L	3	9	7	45,428,097	57,897,363	9p11.2	7p11.2
LU21_AD	3	17	17	45,444,590	45,408,770	17q21.32	17q21.32
LU6_L	11	19	19	45,487,346	49,570,861	19q13.32	19q13.33
LU18_AD	6	6	6	45,495,953	45,673,491	6p21.1	6p21.1
LU18_L	9	6	6	45,496,387	45,673,156	6p21.1	6p21.1
LU4_L	5	9	9	45,516,647	42,111,491	9p11.2	9p12
LU15_L	3	6	6	45,545,714	45,580,152	6p21.1	6p21.1
LU20_AD	4	12	5	45,548,544	135,107,757	12q12	5q31.1
LU4_AD	3	13	13	45,549,335	45,580,347	13q14.12	13q14.12
LU15_L	3	6	6	45,580,152	45,545,714	6p21.1	6p21.1
LU4_AD	3	13	13	45,580,347	45,549,335	13q14.12	13q14.12
LU16_AD	3	9	9	45,634,869	68,672,447	9p11.2	9q13
LU3_AD	3	12	12	45,663,346	19,349,871	12q12	12p12.3
LU18_L	9	6	6	45,673,156	45,496,387	6p21.1	6p21.1
LU18_AD	6	6	6	45,673,491	45,495,953	6p21.1	6p21.1
LU3_AD	3	6	6	45,687,642	45,719,194	6p21.1	6p21.1
LU16_AD	6	9	9	45,692,675	25,562,915	9p11.2	9p21.3
LU3_AD	3	6	6	45,719,194	45,687,642	6p21.1	6p21.1
LU20_AD	7	20	4	45,743,129	32,217,014	20q13.12	4p15.1
LU21_AD	4	7	7	45,785,045	42,630,786	7p12.3	7p14.1
LU16_AD	3	12	12	45,837,551	45,870,149	12q12	12q12
LU3_L	4	18	18	45,847,551	45,903,081	18q21.1	18q21.1
LU16_AD	3	12	12	45,870,149	45,837,551	12q12	12q12
LU3_L	4	18	18	45,903,081	45,847,551	18q21.1	18q21.1
LU7_L	5	7	12	45,912,065	20,643,026	7p12.3	12p12.2
LU7_AD	3	7	12	46,009,678	55,529,850	7p12.3	12q13.2
LU16_L	5	7	5	46,079,607	1,796,862	7p12.3	5p15.33
LU16_AD	40	7	5	46,079,623	1,792,205	7p12.3	5p15.33

LU16_L	6	7	7	46,079,925	15,749,588	7p12.3	7p21.2
LU16_AD	32	7	7	46,079,970	15,749,119	7p12.3	7p21.2
LU14_AD	4	7	2	46,085,278	20,125,036	7p12.3	2p24.1
LU3_AD	3	12	12	46,088,835	19,836,183	12q12	12p12.3
LU3_L	3	3	19	46,091,684	52,309,928	3p21.31	19q13.41
LU15_L	3	3	14	46,092,853	70,280,671	3p21.31	14q24.2
LU3_AD	3	7	7	46,133,174	46,170,210	7p12.3	7p12.3
LU20_AD	4	17	9	46,138,314	125,720,358	17q21.32	9q33.2
LU4_AD	17	7	7	46,156,481	38,698,996	7p12.3	7p14.1
LU21_AD	5	9	20	46,162,525	29,563,633	9p11.2	20q11.21
LU7_AD	3	9	9	46,163,463	67,741,933	9p11.2	9q13
LU3_AD	3	7	7	46,170,210	46,133,174	7p12.3	7p12.3
LU16_AD	7	7	25	46,172,132	3,265,222	7p12.3	25
LU16_AD	3	14	13	46,182,627	38,133,246	14q21.2	13q13.3
LU20_AD	4	1	1	46,219,510	52,679,992	1p34.1	1p32.3
LU15_L	3	4	2	46,298,054	156,781,621	4p12	2q24.1
LU18_L	3	5	4	46,339,539	190,819,555	5p11	4q35.2
LU20_L	3	15	15	46,371,160	46,410,752	15q21.1	15q21.1
LU20_AD	4	16	5	46,390,711	64,481,974	16q11.2	5q12.3
LU20_L	3	15	15	46,410,752	46,371,160	15q21.1	15q21.1
LU3_AD	4	20	20	46,439,705	47,158,148	20q13.13	20q13.13
LU3_AD	3	9	9	46,451,499	42,025,150	9p11.2	9p12
LU8_AD	4	16	10	46,463,252	38,567,192	16q11.2	10p11.1
LU3_L	3	3	11	46,469,829	112,798,588	3p21.31	11q23.2
LU5_L	5	10	10	46,476,941	48,625,236	10q11.22	10q11.22
LU21_L	3	10	10	46,486,056	46,518,724	10q11.22	10q11.22
LU21_L	3	10	10	46,518,724	46,486,056	10q11.22	10q11.22
LU4_AD	6	16	16	46,533,444	64,549,760	16q11.2	16q21
LU3_L	3	7	7	46,654,966	46,685,869	7p12.3	7p12.3
LU3_L	3	7	7	46,685,869	46,654,966	7p12.3	7p12.3
LU5_AD	8	19	19	46,690,095	46,780,634	19q13.32	19q13.32
LU16_AD	5	9	9	46,709,995	12,289,989	9p11.2	9p23
LU11_AD	3	6	6	46,778,761	46,830,800	6p12.3	6p12.3
LU5_AD	8	19	19	46,780,634	46,690,095	19q13.32	19q13.32
LU11_AD	3	6	6	46,830,800	46,778,761	6p12.3	6p12.3
LU15_L	3	20	20	46,860,769	35,286,962	20q13.13	20q11.23
LU15_AD	8	20	20	46,863,426	35,284,537	20q13.13	20q11.23
LU4_L	3	16	16	46,887,821	64,529,049	16q11.2	16q21
LU14_L	3	9	9	46,903,495	65,968,946	9p11.2	9q13
LU3_AD	5	12	5	46,950,712	176,689,789	12q13.11	5q35.3
LU20_L	3	10	10	46,961,257	81,454,773	10q11.22	10q22.3
LU18_AD	8	15	5	46,973,072	741,481	15q21.1	5p15.33
LU18_L	5	15	5	46,973,575	743,212	15q21.1	5p15.33
LU12_L	14	8	8	46,977,931	128,618,949	8q11.1	8q24.21

LU7_AD	4	2	6	46,984,013	113,545,109	2p21	6q21
LU8_L	3	2	6	46,985,656	113,543,482	2p21	6q21
LU8_L	3	10	10	47,024,710	47,081,292	10q11.22	10q11.22
LU21_L	3	10	10	47,030,975	47,085,636	10q11.22	10q11.22
LU3_AD	6	12	12	47,030,982	29,469,258	12q13.11	12p11.22
LU8_L	3	10	10	47,081,292	47,024,710	10q11.22	10q11.22
LU21_L	3	10	10	47,085,636	47,030,975	10q11.22	10q11.22
LU3_AD	4	12	12	47,088,900	63,492,744	12q13.11	12q14.2
LU3_AD	4	12	12	47,113,140	58,427,110	12q13.11	12q14.1
LU12_AD	3	10	10	47,121,455	49,196,425	10q11.22	10q11.22
LU3_AD	4	20	20	47,158,148	46,439,705	20q13.13	20q13.13
LU18_L	3	8	5	47,191,805	1,585,090	8q11.1	5p15.33
LU18_AD	5	15	11	47,256,998	17,975,967	15q21.1	11p15.1
LU18_L	8	15	11	47,257,266	17,975,285	15q21.1	11p15.1
LU20_AD	3	2	12	47,329,949	1,823,755	2p21	12p13.33
LU12_AD	9	1	8	47,370,444	53,859,848	1p33	8q11.23
LU3_AD	4	12	12	47,476,587	19,901,070	12q13.11	12p12.3
LU11_AD	9	1	1	47,595,051	26,330,239	1p33	1p36.11
LU11_AD	6	1	1	47,596,788	109,815,215	1p33	1p13.3
LU11_L	4	1	1	47,596,966	109,815,591	1p33	1p13.3
LU15_AD	3	6	3	47,611,794	161,766,191	6p12.3	3q26.1
LU20_AD	3	6	4	47,612,151	72,506,385	6p12.3	4q13.3
LU3_AD	3	16	16	47,639,685	47,673,215	16q12.1	16q12.1
LU12_L	12	8	8	47,667,475	97,215,775	8q11.1	8q22.1
LU3_AD	3	16	16	47,673,215	47,639,685	16q12.1	16q12.1
LU20_AD	3	6	6	47,673,596	47,704,888	6p12.3	6p12.3
LU11_AD	43	12	12	47,699,061	48,705,166	12q13.11	12q13.11
LU11_L	23	12	12	47,699,602	48,704,454	12q13.11	12q13.11
LU14_L	3	6	6	47,700,471	47,733,534	6p12.3	6p12.3
LU20_AD	3	6	6	47,704,888	47,673,596	6p12.3	6p12.3
LU7_L	3	7	12	47,721,792	23,368,682	7p12.3	12p12.1
LU14_L	3	6	6	47,733,534	47,700,471	6p12.3	6p12.3
LU15_L	12	20	20	47,734,708	36,554,906	20q13.13	20q11.23
LU15_AD	31	20	20	47,734,878	36,550,062	20q13.13	20q11.23
LU4_AD	12	16	16	47,752,692	47,826,124	16q12.1	16q12.1
LU4_L	14	16	16	47,753,176	47,827,245	16q12.1	16q12.1
LU4_L	4	2	22	47,811,979	24,198,454	2p16.3	22q11.23
LU12_L	3	2	1	47,812,574	38,378,970	2p16.3	1p34.3
LU4_AD	12	16	16	47,826,124	47,752,692	16q12.1	16q12.1
LU4_L	14	16	16	47,827,245	47,753,176	16q12.1	16q12.1
LU21_L	3	12	1	47,840,051	143,489,883	12q13.11	1q21.1
LU11_L	8	12	12	47,846,431	107,153,347	12q13.11	12q23.3
LU7_L	10	7	7	47,882,638	6,071,948	7p12.3	7p22.1
LU7_AD	4	7	7	47,883,554	6,070,836	7p12.3	7p22.1

LU12_L	5	16	16	47,905,180	48,011,654	16q12.1	16q12.1
LU12_L	19	16	16	47,908,201	54,265,847	16q12.1	16q12.2
LU12_L	5	16	21	47,916,652	10,096,033	16q12.1	21p11.2
LU12_L	5	16	1	47,917,269	142,550,227	16q12.1	1q12
LU18_L	3	18	3	47,974,247	96,386,150	18q21.1	3q11.2
LU18_AD	3	22	2	47,977,654	89,019,239	22q13.31	2p11.2
LU3_L	3	18	18	47,980,534	48,013,591	18q21.1	18q21.1
LU12_L	5	16	16	48,011,654	47,905,180	16q12.1	16q12.1
LU3_L	3	18	18	48,013,591	47,980,534	18q21.1	18q21.1
LU15_AD	6	20	20	48,038,739	49,690,629	20q13.13	20q13.13
LU15_AD	6	20	20	48,039,130	50,359,387	20q13.13	20q13.2
LU20_AD	4	6	1	48,116,548	113,993,045	6p12.3	1p13.2
LU7_L	3	14	14	48,123,611	48,155,375	14q21.3	14q21.3
LU4_AD	8	1	16	48,145,042	63,708,924	1p33	16q21
LU7_L	3	14	14	48,155,375	48,123,611	14q21.3	14q21.3
LU18_L	3	18	18	48,175,057	48,228,653	18q21.1	18q21.2
LU18_L	3	18	18	48,228,653	48,175,057	18q21.2	18q21.1
LU16_AD	18	14	21	48,235,362	9,827,915	14q21.3	21p11.2
LU4_AD	3	6	6	48,244,295	48,274,264	6p12.3	6p12.3
LU15_L	3	3	6	48,252,194	145,015,880	3p21.31	6q24.2
LU4_AD	3	6	6	48,274,264	48,244,295	6p12.3	6p12.3
LU6_L	3	2	2	48,283,063	48,322,910	2p16.3	2p16.3
LU4_AD	14	1	1	48,313,516	231,205	1p33	1p36.33
LU4_AD	13	1	11	48,314,688	191,196	1p33	11p15.5
LU4_L	10	1	11	48,314,716	191,492	1p33	11p15.5
LU4_AD	5	1	6	48,315,482	149,281	1p33	6p25.3
LU4_AD	3	1	4	48,315,958	12,626	1p33	4p16.3
LU6_L	3	2	2	48,322,910	48,283,063	2p16.3	2p16.3
LU7_L	3	7	7	48,326,532	23,024,083	7p12.3	7p15.3
LU7_AD	3	7	7	48,327,488	23,024,715	7p12.3	7p15.3
LU11_AD	39	12	12	48,349,923	48,700,977	12q13.11	12q13.11
LU11_L	19	12	12	48,350,462	48,700,880	12q13.11	12q13.11
LU7_AD	3	3	3	48,372,957	38,338,362	3p21.31	3p22.2
LU21_AD	3	7	7	48,394,239	48,430,812	7p12.3	7p12.3
LU11_L	5	12	12	48,430,144	56,225,220	12q13.11	12q13.2
LU21_AD	3	7	7	48,430,812	48,394,239	7p12.3	7p12.3
LU11_AD	32	12	12	48,481,534	58,141,149	12q13.11	12q14.1
LU11_L	24	12	12	48,482,618	58,139,664	12q13.11	12q14.1
LU4_AD	3	17	7	48,490,167	30,847,188	17q21.33	7p14.3
LU11_AD	11	12	12	48,514,791	117,347,411	12q13.11	12q24.22
LU11_L	33	12	12	48,518,048	49,676,046	12q13.11	12q13.12
LU11_AD	53	12	12	48,520,189	68,370,243	12q13.11	12q15
LU11_L	29	12	12	48,523,556	68,370,125	12q13.11	12q15
LU11_AD	38	12	12	48,524,585	49,676,045	12q13.11	12q13.12

LU7_L	4	2	19	48,613,412	21,595,352	2p16.3	19p12
LU4_AD	4	16	16	48,620,542	48,954,485	16q12.1	16q12.1
LU5_L	5	10	10	48,625,236	46,476,941	10q11.22	10q11.22
LU18_L	3	13	12	48,631,394	68,168,031	13q14.2	12q15
LU3_AD	3	1	1	48,646,835	48,685,050	1p33	1p33
LU18_AD	4	1	1	48,672,298	48,705,688	1p33	1p33
LU11_AD	15	12	12	48,674,703	115,608,000	12q13.11	12q24.21
LU11_AD	13	12	18	48,674,803	36,557,635	12q13.11	18q12.2
LU11_L	4	12	12	48,675,419	115,609,584	12q13.11	12q24.21
LU4_AD	12	16	16	48,679,178	69,460,661	16q12.1	16q22.1
LU18_AD	4	1	1	48,680,912	83,421,971	1p33	1p31.1
LU4_L	5	16	16	48,681,325	69,458,531	16q12.1	16q22.1
LU4_L	4	16	16	48,683,029	69,405,863	16q12.1	16q22.1
LU3_AD	3	1	1	48,685,050	48,646,835	1p33	1p33
LU4_AD	7	16	16	48,685,620	69,405,008	16q12.1	16q22.1
LU4_L	3	1	1	48,695,621	153,077,404	1p33	1q21.3
LU4_AD	4	1	1	48,696,108	153,077,291	1p33	1q21.3
LU11_L	19	12	12	48,700,880	48,350,462	12q13.11	12q13.11
LU11_AD	39	12	12	48,700,977	48,349,923	12q13.11	12q13.11
LU11_L	23	12	12	48,704,454	47,699,602	12q13.11	12q13.11
LU11_AD	43	12	12	48,705,166	47,699,061	12q13.11	12q13.11
LU18_AD	4	1	1	48,705,688	48,672,298	1p33	1p33
LU7_L	6	7	7	48,707,134	37,209,780	7p12.3	7p14.1
LU11_L	7	12	18	48,709,623	35,821,655	12q13.11	18q12.2
LU11_L	9	12	12	48,709,850	68,838,130	12q13.11	12q15
LU11_AD	4	12	12	48,709,983	68,839,632	12q13.11	12q15
LU18_AD	3	23	12	48,712,580	68,934,875	Xp11.23	12q15
LU15_L	3	22	22	48,712,856	48,751,508	22q13.32	22q13.32
LU4_AD	21	16	1	48,714,539	49,015,314	16q12.1	1p33
LU4_L	18	16	1	48,714,652	49,015,264	16q12.1	1p33
LU15_L	3	22	22	48,751,508	48,712,856	22q13.32	22q13.32
LU11_AD	70	12	20	48,805,071	57,146,778	12q13.11	20q13.32
LU11_L	12	12	20	48,812,023	57,150,834	12q13.11	20q13.32
LU11_L	4	12	12	48,818,163	69,278,255	12q13.11	12q15
LU20_AD	3	20	20	48,825,102	48,876,877	20q13.13	20q13.13
LU3_L	3	6	24	48,843,348	23,611,791	6p12.3	Yq11.223
LU20_AD	3	20	20	48,876,877	48,825,102	20q13.13	20q13.13
LU11_L	7	12	12	48,895,287	62,157,367	12q13.11	12q14.1
LU12_L	3	1	8	48,905,436	49,151,963	1p33	8q11.21
LU5_AD	4	1	10	48,905,454	10,331,587	1p33	10p14
LU3_L	4	15	3	48,912,098	181,701,984	15q21.1	3q26.33
LU4_AD	4	16	16	48,954,485	48,620,542	16q12.1	16q12.1
LU4_AD	4	1	3	48,981,343	102,932,054	1p33	3q13.11
LU4_AD	4	11	5	48,989,828	10,650,362	11p11.12	5p15.2

LU14_L	3	1	1	48,993,458	49,026,621	1p33	1p33
LU4_AD	8	16	16	49,004,642	64,697,759	16q12.1	16q21
LU4_L	5	16	16	49,004,951	64,698,082	16q12.1	16q21
LU4_L	18	1	16	49,015,264	48,714,652	1p33	16q12.1
LU4_AD	21	1	16	49,015,314	48,714,539	1p33	16q12.1
LU5_L	3	14	11	49,024,812	92,996,807	14q21.3	11q21
LU14_L	3	1	1	49,026,621	48,993,458	1p33	1p33
LU15_L	3	8	8	49,059,123	49,098,515	8q11.21	8q11.21
LU4_AD	11	16	1	49,059,323	22,585,551	16q12.1	1p36.12
LU15_L	3	8	8	49,098,515	49,059,123	8q11.21	8q11.21
LU7_L	14	12	12	49,110,651	71,086,119	12q13.12	12q15
LU7_L	16	12	12	49,111,352	51,073,817	12q13.12	12q13.12
LU7_AD	17	12	12	49,112,308	51,073,613	12q13.12	12q13.12
LU7_AD	5	12	12	49,112,489	71,086,752	12q13.12	12q15
LU4_AD	5	16	16	49,126,168	60,247,880	16q12.1	16q21
LU4_L	9	16	16	49,126,661	60,248,294	16q12.1	16q21
LU3_AD	3	18	18	49,128,529	49,163,014	18q21.2	18q21.2
LU18_AD	4	23	23	49,146,945	53,021,176	Xp11.23	Xp11.22
LU12_L	3	8	1	49,151,963	48,905,436	8q11.21	1p33
LU3_AD	3	18	18	49,163,014	49,128,529	18q21.2	18q21.2
LU12_AD	3	10	10	49,196,425	47,121,455	10q11.22	10q11.22
LU18_AD	23	4	5	49,311,102	2,640,891	4p11	5p15.33
LU18_L	28	4	5	49,312,237	2,639,660	4p11	5p15.33
LU16_AD	4	4	5	49,312,439	6,303,511	4p11	5p15.31
LU16_L	7	4	5	49,312,658	6,305,529	4p11	5p15.31
LU18_AD	3	4	12	49,315,254	65,185,229	4p11	12q14.3
LU3_AD	3	12	12	49,372,568	56,022,699	12q13.12	12q13.2
LU3_L	3	7	7	49,382,619	49,422,570	7p12.2	7p12.2
LU3_L	3	7	7	49,422,570	49,382,619	7p12.2	7p12.2
LU4_L	3	13	1	49,441,751	210,365,506	13q14.2	1q32.2
LU3_AD	3	6	1	49,470,742	242,621,779	6p12.3	1q43
LU18_AD	3	4	5	49,491,069	1,206,987	4p11	5p15.33
LU18_L	8	4	5	49,515,019	2,641,303	4p11	5p15.33
LU16_AD	4	4	5	49,515,707	6,306,149	4p11	5p15.31
LU18_AD	6	4	5	49,516,834	2,639,746	4p11	5p15.33
LU11_L	5	12	12	49,517,782	62,225,898	12q13.12	12q14.1
LU11_AD	6	12	12	49,558,197	112,075,877	12q13.12	12q24.12
LU6_L	11	19	19	49,570,861	45,487,346	19q13.33	19q13.32
LU14_AD	6	12	12	49,644,589	60,732,060	12q13.12	12q14.1
LU11_L	14	12	12	49,675,875	68,369,882	12q13.12	12q15
LU11_AD	21	12	12	49,676,016	68,370,816	12q13.12	12q15
LU11_AD	38	12	12	49,676,045	48,524,585	12q13.12	12q13.11
LU11_L	33	12	12	49,676,046	48,518,048	12q13.12	12q13.11
LU15_AD	6	20	20	49,690,629	48,038,739	20q13.13	20q13.13

LU3_L	3	3	1	49,728,243	16,925,906	3p21.31	1p36.13
LU7_AD	7	12	12	49,734,221	64,507,788	12q13.12	12q14.2
LU7_L	7	12	12	49,736,022	64,506,625	12q13.12	12q14.2
LU7_L	4	12	12	49,739,903	63,070,689	12q13.12	12q14.1
LU7_L	13	12	12	49,749,942	56,104,617	12q13.12	12q13.2
LU7_L	3	12	12	49,752,917	63,036,316	12q13.12	12q14.1
LU7_AD	6	12	12	49,753,600	63,034,237	12q13.12	12q14.1
LU7_L	7	12	12	49,754,782	50,913,680	12q13.12	12q13.12
LU4_L	3	10	10	49,789,992	49,821,068	10q11.22	10q11.22
LU4_L	3	10	10	49,821,068	49,789,992	10q11.22	10q11.22
LU7_L	4	12	12	49,853,001	67,961,901	12q13.12	12q15
LU3_L	5	14	14	49,859,338	49,895,797	14q21.3	14q21.3
LU11_AD	6	12	12	49,867,462	58,138,076	12q13.12	12q14.1
LU11_L	17	12	12	49,867,972	58,136,937	12q13.12	12q14.1
LU11_AD	3	8	7	49,875,838	155,034,056	8q11.21	7q36.2
LU4_AD	4	8	1	49,877,071	16,432,800	8q11.21	1p36.13
LU11_L	12	12	12	49,881,779	112,039,229	12q13.12	12q24.12
LU11_AD	7	12	12	49,883,168	112,039,336	12q13.12	12q24.12
LU11_AD	5	13	13	49,895,627	49,936,525	13q14.2	13q14.2
LU3_L	5	14	14	49,895,797	49,859,338	14q21.3	14q21.3
LU11_AD	5	13	13	49,936,525	49,895,627	13q14.2	13q14.2
LU11_AD	8	16	16	49,942,212	11,779,500	16q12.1	16p13.13
LU11_AD	28	12	12	49,960,632	58,475,763	12q13.12	12q14.1
LU11_L	28	12	12	49,960,673	58,475,695	12q13.12	12q14.1
LU11_AD	21	12	12	49,963,749	58,142,128	12q13.12	12q14.1
LU11_L	19	12	12	49,965,786	112,044,090	12q13.12	12q24.12
LU11_AD	5	12	12	49,966,015	112,044,939	12q13.12	12q24.12
LU11_AD	29	12	12	49,972,040	57,618,162	12q13.12	12q13.3
LU11_L	10	12	12	49,972,132	57,619,391	12q13.12	12q13.3
LU11_AD	9	12	12	49,974,869	57,979,742	12q13.12	12q13.3
LU11_AD	6	12	12	49,975,265	56,417,758	12q13.12	12q13.2
LU11_L	6	12	12	49,976,137	57,980,191	12q13.12	12q13.3
LU11_AD	21	12	12	49,981,389	57,231,053	12q13.12	12q13.3
LU4_AD	4	11	1	50,039,561	228,157,113	11p11.12	1q42.13
LU4_AD	3	1	13	50,039,829	98,244,370	1p33	13q32.2
LU15_L	4	11	1	50,039,951	228,155,932	11p11.12	1q42.13
LU20_L	6	11	1	50,040,118	228,153,965	11p11.12	1q42.13
LU8_L	3	11	1	50,041,672	228,153,522	11p11.12	1q42.13
LU3_AD	3	11	1	50,042,956	228,153,942	11p11.12	1q42.13
LU4_AD	5	23	1	50,074,093	227,867,948	Xp11.22	1q42.13
LU20_L	3	7	16	50,107,219	20,688,590	7p12.2	16p12.3
LU16_AD	3	7	23	50,109,580	119,283,273	7p12.2	Xq24
LU21_L	4	12	5	50,127,924	37,777,834	12q13.12	5p13.2
LU3_AD	5	12	12	50,155,877	30,777,969	12q13.12	12p11.21

LU8_L	4	13	1	50,225,512	97,499,409	13q14.2	1p21.3
LU7_L	10	12	12	50,287,437	56,097,178	12q13.12	12q13.2
LU7_L	19	12	12	50,288,851	68,138,540	12q13.12	12q15
LU7_AD	7	12	12	50,289,075	68,137,906	12q13.12	12q15
LU7_L	8	12	12	50,292,841	56,253,309	12q13.12	12q13.2
LU7_AD	11	12	12	50,295,173	57,380,081	12q13.12	12q13.3
LU7_AD	5	12	12	50,296,348	57,333,866	12q13.12	12q13.3
LU7_L	10	12	12	50,296,493	57,333,894	12q13.12	12q13.3
LU7_L	27	12	12	50,298,886	57,370,003	12q13.12	12q13.3
LU4_AD	3	6	6	50,341,681	50,376,669	6p12.3	6p12.3
LU15_AD	6	20	20	50,359,387	48,039,130	20q13.2	20q13.13
LU15_L	27	5	5	50,368,533	54,195,486	5q11.1	5q11.2
LU4_AD	3	6	6	50,376,669	50,341,681	6p12.3	6p12.3
LU7_L	6	7	7	50,448,284	50,616,109	7p12.2	7p12.1
LU7_L	4	7	12	50,449,946	61,868,602	7p12.2	12q14.1
LU7_L	7	12	12	50,471,028	60,194,731	12q13.12	12q14.1
LU12_L	17	8	8	50,500,555	108,277,422	8q11.21	8q23.1
LU4_AD	12	16	16	50,547,334	56,228,497	16q12.1	16q12.2
LU6_L	9	14	12	50,557,306	69,079,182	14q21.3	12q15
LU14_L	3	8	10	50,564,649	22,432,368	8q11.21	10p12.31
LU7_L	5	12	12	50,567,351	63,037,541	12q13.12	12q14.1
LU11_AD	6	12	12	50,589,424	67,983,494	12q13.12	12q15
LU7_L	6	7	7	50,616,109	50,448,284	7p12.1	7p12.2
LU7_L	5	12	12	50,661,760	50,904,315	12q13.12	12q13.12
LU15_L	3	6	17	50,671,134	21,187,096	6p12.3	17p11.2
LU20_AD	4	17	6	50,671,704	101,674,234	17q22	6q16.3
LU4_AD	3	17	12	50,675,452	17,449,943	17q22	12p12.3
LU18_L	9	6	6	50,748,933	55,792,301	6p12.3	6p12.1
LU7_L	4	12	12	50,879,435	57,029,578	12q13.12	12q13.3
LU7_L	3	10	10	50,880,067	50,910,683	10q11.23	10q11.23
LU12_L	3	12	1	50,889,449	142,597,059	12q13.12	1q12
LU21_AD	9	3	3	50,893,394	50,948,709	3p21.2	3p21.2
LU7_AD	5	10	12	50,894,087	126,352,808	10q11.23	12q24.32
LU7_L	5	12	12	50,904,315	50,661,760	12q13.12	12q13.12
LU7_AD	3	12	12	50,908,134	62,964,123	12q13.12	12q14.1
LU7_L	7	12	12	50,908,351	62,963,167	12q13.12	12q14.1
LU7_L	3	10	10	50,910,683	50,880,067	10q11.23	10q11.23
LU7_L	7	12	12	50,913,680	49,754,782	12q13.12	12q13.12
LU7_L	3	12	12	50,917,010	56,365,632	12q13.12	12q13.2
LU6_L	8	14	14	50,918,048	51,098,205	14q22.1	14q22.1
LU21_L	11	5	5	50,920,653	11,239,452	5q11.2	5p15.2
LU20_AD	3	17	17	50,947,991	50,991,353	17q22	17q22
LU21_AD	9	3	3	50,948,709	50,893,394	3p21.2	3p21.2
LU20_AD	3	17	17	50,991,353	50,947,991	17q22	17q22

LU4_AD	13	16	16	51,028,763	61,546,497	16q12.1	16q21
LU4_L	11	16	16	51,041,694	53,615,503	16q12.1	16q12.2
LU4_AD	26	16	16	51,042,267	53,614,614	16q12.1	16q12.2
LU4_L	3	23	23	51,052,043	51,085,261	Xp11.22	Xp11.22
LU16_AD	5	14	12	51,053,399	75,211,468	14q22.1	12q21.1
LU7_AD	17	12	12	51,073,613	49,112,308	12q13.12	12q13.12
LU7_L	16	12	12	51,073,817	49,111,352	12q13.12	12q13.12
LU4_L	3	23	23	51,085,261	51,052,043	Xp11.22	Xp11.22
LU6_L	8	14	14	51,098,205	50,918,048	14q22.1	14q22.1
LU15_L	3	19	3	51,106,866	190,594,813	19q13.33	3q28
LU12_L	4	19	3	51,107,251	190,594,362	19q13.33	3q28
LU20_AD	4	22	1	51,125,575	207,634,822	22q13.33	1q32.2
LU7_L	4	12	7	51,156,187	36,271,666	12q13.12	7p14.2
LU16_AD	3	14	14	51,157,195	56,121,801	14q22.1	14q22.3
LU7_L	3	12	12	51,215,124	69,587,323	12q13.12	12q15
LU7_AD	5	12	9	51,218,276	45,030,110	12q13.12	9p11.2
LU7_L	9	12	12	51,218,556	54,501,890	12q13.12	12q13.13
LU7_AD	5	12	12	51,218,620	54,502,294	12q13.12	12q13.13
LU7_L	4	12	9	51,220,261	45,027,525	12q13.12	9p11.2
LU16_AD	3	14	14	51,227,826	59,097,946	14q22.1	14q23.1
LU16_AD	8	14	12	51,259,980	75,340,495	14q22.1	12q21.1
LU12_L	4	12	4	51,299,558	114,971,955	12q13.12	4q26
LU18_L	3	12	2	51,302,591	31,856,943	12q13.12	2p23.1
LU4_AD	6	1	1	51,368,972	25,849,425	1p32.3	1p36.11
LU8_L	3	11	11	51,376,547	51,419,392	11p11.12	11p11.12
LU8_L	3	11	11	51,419,392	51,376,547	11p11.12	11p11.12
LU12_AD	6	7	7	51,459,273	65,843,722	7p12.1	7q11.21
LU16_AD	5	1	7	51,514,525	92,899,713	1p32.3	7q21.3
LU20_AD	3	18	9	51,533,876	7,426,519	18q21.2	9p24.1
LU4_AD	3	15	1	51,575,010	62,648,657	15q21.2	1p31.3
LU8_L	3	15	15	51,576,768	62,505,606	15q21.2	15q22.2
LU20_L	3	5	9	51,602,150	96,516,455	5q11.2	9q22.31
LU18_L	3	15	11	51,651,580	114,219,934	15q21.2	11q23.2
LU20_L	3	17	17	51,718,185	51,749,577	17q22	17q22
LU20_L	3	13	1	51,733,452	13,433,187	13q14.3	1p36.21
LU21_L	7	5	5	51,736,688	13,997,705	5q11.2	5p15.2
LU18_L	3	10	10	51,739,065	38,454,863	10q11.23	10p11.1
LU15_L	4	13	13	51,746,364	56,158,314	13q14.3	13q21.1
LU20_L	3	17	17	51,749,577	51,718,185	17q22	17q22
LU21_L	5	5	5	51,798,360	12,675,224	5q11.2	5p15.2
LU5_L	4	7	7	51,805,689	51,843,564	7p12.1	7p12.1
LU5_L	4	7	7	51,843,564	51,805,689	7p12.1	7p12.1
LU21_L	7	20	16	51,868,943	847,599	20q13.2	16p13.3
LU4_AD	3	23	23	51,937,122	54,956,984	Xp11.22	Xp11.21

LU8_L	3	12	12	51,992,718	52,023,006	12q13.13	12q13.13
LU7_L	8	12	9	52,020,100	44,843,503	12q13.13	9p11.2
LU8_L	3	12	12	52,023,006	51,992,718	12q13.13	12q13.13
LU7_L	11	12	12	52,030,591	54,509,685	12q13.13	12q13.13
LU7_AD	15	12	12	52,031,468	54,508,564	12q13.13	12q13.13
LU21_L	9	5	5	52,062,954	35,867,430	5q11.2	5p13.2
LU8_AD	3	12	1	52,106,421	113,992,990	12q13.13	1p13.2
LU21_L	3	12	2	52,106,582	178,081,317	12q13.13	2q31.2
LU5_L	3	12	19	52,127,596	9,825,325	12q13.13	19p13.2
LU16_AD	3	1	11	52,249,800	90,848,326	1p32.3	11q14.3
LU20_L	3	18	18	52,252,782	52,282,851	18q21.2	18q21.2
LU20_L	3	18	18	52,282,851	52,252,782	18q21.2	18q21.2
LU3_L	3	19	3	52,309,928	46,091,684	19q13.41	3p21.31
LU12_L	33	8	8	52,342,602	65,670,579	8q11.22	8q12.3
LU20_AD	4	17	1	52,362,353	66,889,866	17q22	1p31.3
LU4_L	4	17	1	52,367,675	161,445,889	17q22	1q23.3
LU12_L	3	17	13	52,406,044	111,849,296	17q22	13q34
LU4_L	3	10	10	52,416,182	81,556,644	10q11.23	10q22.3
LU20_AD	3	8	8	52,466,280	52,495,781	8q11.22	8q11.22
LU7_AD	3	20	1	52,491,878	160,287,187	20q13.2	1q23.2
LU20_AD	3	8	8	52,495,781	52,466,280	8q11.22	8q11.22
LU20_AD	4	12	13	52,502,265	68,488,771	12q13.13	13q21.32
LU7_L	3	12	12	52,541,567	55,715,762	12q13.13	12q13.2
LU8_L	5	13	13	52,549,941	57,024,375	13q14.3	13q21.1
LU7_L	7	12	12	52,554,463	67,934,265	12q13.13	12q15
LU4_AD	5	2	2	52,589,247	52,625,536	2p16.3	2p16.3
LU4_AD	5	2	2	52,625,536	52,589,247	2p16.3	2p16.3
LU12_AD	5	8	1	52,658,862	70,669,783	8q11.23	1p31.1
LU20_AD	4	1	1	52,679,992	46,219,510	1p32.3	1p34.1
LU14_L	11	12	12	52,680,859	52,786,552	12q13.13	12q13.13
LU14_AD	10	12	12	52,689,204	52,779,524	12q13.13	12q13.13
LU3_AD	4	19	19	52,710,695	11,716,386	19q13.41	19p13.2
LU4_AD	14	7	5	52,767,890	158,230,149	7p12.1	5q33.3
LU14_AD	10	12	12	52,779,524	52,689,204	12q13.13	12q13.13
LU18_AD	3	6	5	52,783,416	31,394,289	6p12.2	5p13.3
LU14_L	11	12	12	52,786,552	52,680,859	12q13.13	12q13.13
LU4_AD	5	7	5	52,795,548	164,651,034	7p12.1	5q34
LU21_AD	3	13	13	52,800,855	25,163,373	13q14.3	13q12.12
LU4_AD	12	7	5	52,802,723	164,626,640	7p12.1	5q34
LU4_AD	3	13	13	52,814,472	25,154,184	13q14.3	13q12.12
LU4_L	3	13	13	52,826,576	41,423,812	13q14.3	13q14.11
LU21_L	4	16	16	52,847,414	52,879,844	16q12.2	16q12.2
LU4_AD	5	7	7	52,851,436	53,232,060	7p12.1	7p12.1
LU4_AD	8	7	7	52,853,249	53,234,973	7p12.1	7p12.1

LU7_AD	4	23	3	52,861,315	186,507,186	Xp11.22	3q27.3
LU21_L	4	16	16	52,879,844	52,847,414	16q12.2	16q12.2
LU21_L	7	5	5	52,949,889	4,755,839	5q11.2	5p15.32
LU11_AD	10	6	6	52,963,528	16,425,134	6p12.1	6p22.3
LU18_AD	4	23	23	53,021,176	49,146,945	Xp11.22	Xp11.23
LU4_AD	17	7	5	53,123,687	157,949,947	7p12.1	5q33.3
LU4_L	3	7	5	53,125,318	157,951,517	7p12.1	5q33.3
LU20_L	3	12	11	53,144,619	13,441,045	12q13.13	11p15.2
LU7_L	22	12	12	53,152,732	68,131,502	12q13.13	12q15
LU7_AD	13	12	12	53,154,930	68,128,679	12q13.13	12q15
LU4_AD	7	7	5	53,169,418	158,078,965	7p12.1	5q33.3
LU4_L	5	7	5	53,170,242	158,078,479	7p12.1	5q33.3
LU4_AD	12	5	5	53,176,676	66,642,016	5q11.2	5q12.3
LU5_L	3	13	18	53,212,120	29,992,407	13q14.3	18q12.1
LU4_AD	5	7	7	53,232,060	52,851,436	7p12.1	7p12.1
LU4_AD	8	7	7	53,234,973	52,853,249	7p12.1	7p12.1
LU21_AD	3	15	15	53,271,571	53,313,985	15q21.3	15q21.3
LU12_L	3	8	8	53,272,686	53,304,808	8q11.23	8q11.23
LU12_L	3	8	8	53,304,808	53,272,686	8q11.23	8q11.23
LU3_L	3	12	12	53,309,863	76,158,088	12q13.13	12q21.2
LU21_AD	3	15	15	53,313,985	53,271,571	15q21.3	15q21.3
LU14_L	3	18	18	53,471,940	53,511,277	18q21.2	18q21.2
LU12_L	20	8	8	53,473,729	116,426,853	8q11.23	8q23.3
LU12_L	11	8	8	53,477,319	24,657,154	8q11.23	8p21.2
LU7_AD	4	12	12	53,495,541	58,203,736	12q13.13	12q14.1
LU14_L	3	18	18	53,511,277	53,471,940	18q21.2	18q21.2
LU18_AD	4	17	23	53,549,441	152,362,886	17q22	Xq28
LU16_L	6	23	23	53,551,969	53,622,373	Xp11.22	Xp11.22
LU4_AD	5	16	16	53,609,607	56,220,298	16q12.2	16q12.2
LU4_AD	26	16	16	53,614,614	51,042,267	16q12.2	16q12.1
LU4_L	11	16	16	53,615,503	51,041,694	16q12.2	16q12.1
LU21_AD	3	18	3	53,619,012	79,825,860	18q21.2	3p12.2
LU16_L	6	23	23	53,622,373	53,551,969	Xp11.22	Xp11.22
LU20_L	4	5	11	53,647,566	95,344,208	5q11.2	11q21
LU4_AD	25	16	16	53,650,480	56,286,270	16q12.2	16q12.2
LU4_L	14	16	16	53,652,020	56,285,351	16q12.2	16q12.2
LU20_AD	3	3	3	53,790,845	53,825,454	3p21.1	3p21.1
LU20_AD	3	3	3	53,825,454	53,790,845	3p21.1	3p21.1
LU12_AD	9	8	1	53,859,848	47,370,444	8q11.23	1p33
LU3_L	3	5	5	53,893,170	53,929,724	5q11.2	5q11.2
LU3_L	3	5	5	53,929,724	53,893,170	5q11.2	5q11.2
LU20_AD	3	20	23	53,968,148	106,296,429	20q13.2	Xq22.3
LU3_L	5	6	6	53,984,453	54,033,287	6p12.1	6p12.1
LU11_AD	3	7	5	54,024,247	72,227,876	7p11.2	5q13.2

LU15_L	10	3	3	54,026,530	54,696,207	3p21.1	3p14.3
LU3_L	5	6	6	54,033,287	53,984,453	6p12.1	6p12.1
LU20_L	3	8	1	54,053,705	173,339,186	8q11.23	1q25.1
LU7_AD	6	12	12	54,090,292	68,648,664	12q13.13	12q15
LU16_L	4	12	12	54,112,106	64,988,132	12q13.13	12q14.2
LU15_L	6	3	3	54,170,502	67,279,246	3p21.1	3p14.1
LU15_L	5	17	17	54,174,347	54,213,797	17q22	17q22
LU15_L	27	5	5	54,195,486	50,368,533	5q11.2	5q11.1
LU21_L	3	7	7	54,213,020	54,256,557	7p11.2	7p11.2
LU15_L	5	17	17	54,213,797	54,174,347	17q22	17q22
LU4_L	3	12	12	54,232,271	54,279,068	12q13.13	12q13.13
LU21_L	3	7	7	54,256,557	54,213,020	7p11.2	7p11.2
LU12_L	19	16	16	54,265,847	47,908,201	16q12.2	16q12.1
LU4_L	3	12	12	54,279,068	54,232,271	12q13.13	12q13.13
LU8_L	3	8	23	54,373,083	104,130,919	8q11.23	Xq22.3
LU3_AD	5	12	12	54,438,503	30,780,981	12q13.13	12p11.21
LU15_L	7	5	5	54,446,113	56,273,742	5q11.2	5q11.2
LU7_L	3	12	12	54,476,534	70,090,683	12q13.13	12q15
LU7_L	9	12	12	54,501,890	51,218,556	12q13.13	12q13.12
LU7_AD	5	12	12	54,502,294	51,218,620	12q13.13	12q13.12
LU7_AD	15	12	12	54,508,564	52,031,468	12q13.13	12q13.13
LU4_L	4	18	18	54,509,487	54,546,681	18q21.31	18q21.31
LU7_L	11	12	12	54,509,685	52,030,591	12q13.13	12q13.13
LU7_L	4	7	21	54,531,244	20,416,966	7p11.2	21q21.1
LU4_L	4	18	18	54,546,681	54,509,487	18q21.31	18q21.31
LU7_L	3	12	12	54,565,041	57,024,437	12q13.13	12q13.3
LU21_L	5	5	5	54,610,230	37,089,043	5q11.2	5p13.2
LU15_L	10	3	3	54,696,207	54,026,530	3p14.3	3p21.1
LU15_L	5	3	3	54,698,587	55,915,893	3p14.3	3p14.3
LU15_L	3	1	1	54,761,438	54,796,016	1p32.3	1p32.3
LU15_L	3	1	1	54,796,016	54,761,438	1p32.3	1p32.3
LU21_L	5	20	18	54,825,378	1,672,161	20q13.2	18p11.32
LU4_AD	3	23	23	54,956,984	51,937,122	Xp11.21	Xp11.22
LU3_L	3	2	2	54,963,997	55,002,475	2p16.2	2p16.1
LU3_L	3	2	2	55,002,475	54,963,997	2p16.1	2p16.2
LU21_L	7	20	20	55,007,907	60,015,839	20q13.31	20q13.33
LU7_AD	11	12	12	55,064,192	55,796,876	12q13.2	12q13.2
LU7_L	26	12	12	55,065,576	55,795,364	12q13.2	12q13.2
LU7_L	4	12	15	55,072,227	33,362,971	12q13.2	15q13.3
LU7_AD	4	12	15	55,072,387	33,363,444	12q13.2	15q13.3
LU21_L	4	1	6	55,096,213	29,843,456	1p32.3	6p22.1
LU20_L	3	1	3	55,100,637	184,734,343	1p32.3	3q27.2
LU4_AD	6	10	5	55,114,243	169,065,363	10q21.1	5q35.1
LU18_AD	17	14	5	55,115,379	125,548,314	14q22.2	5q23.2

LU18_L	8	14	5	55,115,736	125,550,076	14q22.2	5q23.2
LU20_L	3	5	5	55,159,804	55,197,423	5q11.2	5q11.2
LU7_L	20	12	12	55,192,055	63,460,887	12q13.2	12q14.2
LU7_AD	16	12	12	55,192,223	63,460,832	12q13.2	12q14.2
LU20_L	3	5	5	55,197,423	55,159,804	5q11.2	5q11.2
LU18_L	3	23	4	55,205,149	156,382,568	Xp11.21	4q32.1
LU7_AD	4	12	7	55,224,414	37,230,977	12q13.2	7p14.1
LU7_L	12	12	7	55,226,604	37,231,370	12q13.2	7p14.1
LU7_L	7	12	12	55,229,754	55,576,329	12q13.2	12q13.2
LU7_L	16	12	12	55,239,310	62,547,612	12q13.2	12q14.1
LU7_AD	9	12	12	55,242,182	62,544,739	12q13.2	12q14.1
LU12_AD	3	5	17	55,265,407	15,687,689	5q11.2	17p12
LU18_L	3	1	12	55,363,648	70,483,717	1p32.3	12q15
LU8_AD	4	1	11	55,374,384	95,041,453	1p32.3	11q21
LU15_L	4	12	2	55,381,409	217,492,521	12q13.2	2q35
LU12_L	3	4	4	55,475,408	55,505,136	4q12	4q12
LU20_AD	7	10	10	55,486,002	56,177,035	10q21.1	10q21.1
LU12_L	4	1	5	55,489,700	103,404,169	1p32.3	5q21.2
LU12_L	4	1	4	55,490,973	95,218,766	1p32.3	4q22.3
LU12_L	3	4	4	55,505,136	55,475,408	4q12	4q12
LU7_AD	3	12	7	55,529,850	46,009,678	12q13.2	7p12.3
LU11_AD	76	20	12	55,558,391	114,742,337	20q13.31	12q24.21
LU11_L	30	20	12	55,558,540	114,742,365	20q13.31	12q24.21
LU7_L	12	12	12	55,571,170	65,101,314	12q13.2	12q14.3
LU7_AD	3	12	12	55,572,973	65,100,761	12q13.2	12q14.3
LU7_L	7	12	12	55,576,329	55,229,754	12q13.2	12q13.2
LU3_L	3	11	11	55,643,288	89,521,265	11q11	11q14.3
LU7_L	3	12	12	55,715,762	52,541,567	12q13.2	12q13.13
LU7_L	4	12	2	55,728,400	130,721,489	12q13.2	2q21.1
LU7_AD	3	12	12	55,790,975	55,979,853	12q13.2	12q13.2
LU7_L	13	12	12	55,791,196	55,981,660	12q13.2	12q13.2
LU18_L	9	6	6	55,792,301	50,748,933	6p12.1	6p12.3
LU7_L	26	12	12	55,795,364	55,065,576	12q13.2	12q13.2
LU7_AD	11	12	12	55,796,876	55,064,192	12q13.2	12q13.2
LU18_L	3	15	1	55,803,780	186,883,030	15q21.3	1q31.1
LU20_AD	4	15	8	55,804,308	24,101,232	15q21.3	8p21.2
LU7_L	15	12	12	55,804,337	55,966,431	12q13.2	12q13.2
LU7_AD	7	12	12	55,805,567	55,968,071	12q13.2	12q13.2
LU12_L	5	11	12	55,813,653	14,637,444	11q12.1	12p13.1
LU11_AD	49	12	12	55,820,011	43,212,187	12q13.2	12q12
LU11_L	37	12	12	55,820,145	43,212,668	12q13.2	12q12
LU3_L	3	7	7	55,821,775	65,851,543	7p11.2	7q11.21
LU3_L	3	8	13	55,841,847	111,707,786	8q12.1	13q34
LU12_L	5	5	5	55,851,107	55,930,139	5q11.2	5q11.2

LU11_L	4	20	1	55,858,940	160,267,970	20q13.31	1q23.2
LU11_L	8	20	1	55,864,022	160,299,986	20q13.31	1q23.2
LU7_L	14	12	21	55,885,591	35,374,359	12q13.2	21q22.11
LU7_AD	11	12	21	55,885,875	35,373,684	12q13.2	21q22.11
LU15_L	5	3	3	55,915,893	54,698,587	3p14.3	3p14.3
LU12_L	5	5	5	55,930,139	55,851,107	5q11.2	5q11.2
LU7_L	15	12	12	55,966,431	55,804,337	12q13.2	12q13.2
LU7_AD	7	12	12	55,968,071	55,805,567	12q13.2	12q13.2
LU7_AD	3	12	12	55,979,853	55,790,975	12q13.2	12q13.2
LU7_L	13	12	12	55,981,660	55,791,196	12q13.2	12q13.2
LU3_AD	3	12	12	56,022,699	49,372,568	12q13.2	12q13.12
LU15_AD	7	20	9	56,040,698	38,437,816	20q13.31	9p13.1
LU15_L	7	20	9	56,046,141	38,437,240	20q13.31	9p13.1
LU15_L	20	20	9	56,049,437	39,193,993	20q13.31	9p13.1
LU15_AD	9	20	9	56,049,550	39,194,846	20q13.31	9p13.1
LU15_AD	15	20	9	56,055,511	34,466,309	20q13.31	9p13.3
LU15_L	20	20	9	56,058,516	34,462,557	20q13.31	9p13.3
LU7_L	10	12	12	56,097,178	50,287,437	12q13.2	12q13.12
LU7_L	13	12	12	56,104,617	49,749,942	12q13.2	12q13.12
LU4_AD	4	1	1	56,105,405	56,135,463	1p32.2	1p32.2
LU7_L	4	12	12	56,117,616	60,262,483	12q13.2	12q14.1
LU16_AD	3	14	14	56,121,801	51,157,195	14q22.3	14q22.1
LU4_AD	4	1	1	56,135,463	56,105,405	1p32.2	1p32.2
LU4_AD	4	19	2	56,147,660	243,153,708	19q13.42	2q37.3
LU5_AD	3	1	1	56,157,150	56,201,097	1p32.2	1p32.2
LU15_L	4	13	13	56,158,314	51,746,364	13q21.1	13q14.3
LU20_AD	7	10	10	56,177,035	55,486,002	10q21.1	10q21.1
LU5_L	3	1	1	56,196,734	56,227,690	1p32.2	1p32.2
LU5_AD	3	1	1	56,201,097	56,157,150	1p32.2	1p32.2
LU4_AD	5	16	16	56,220,298	53,609,607	16q12.2	16q12.2
LU11_L	5	12	12	56,225,220	48,430,144	12q13.2	12q13.11
LU5_L	3	1	1	56,227,690	56,196,734	1p32.2	1p32.2
LU4_AD	12	16	16	56,228,497	50,547,334	16q12.2	16q12.1
LU7_L	8	12	12	56,253,309	50,292,841	12q13.2	12q13.12
LU7_L	7	12	12	56,256,361	57,873,673	12q13.2	12q13.3
LU15_L	7	5	5	56,273,742	54,446,113	5q11.2	5q11.2
LU4_L	14	16	16	56,285,351	53,652,020	16q12.2	16q12.2
LU4_AD	25	16	16	56,286,270	53,650,480	16q12.2	16q12.2
LU7_AD	10	12	12	56,311,080	60,801,189	12q13.2	12q14.1
LU7_AD	10	12	12	56,324,357	70,071,292	12q13.2	12q15
LU7_L	6	12	12	56,326,569	70,071,547	12q13.2	12q15
LU7_AD	7	12	12	56,330,916	65,537,110	12q13.2	12q14.3
LU7_L	6	12	12	56,331,989	65,537,075	12q13.2	12q14.3
LU11_L	6	12	12	56,333,358	59,228,968	12q13.2	12q14.1

LU7_AD	4	12	12	56,361,722	61,522,655	12q13.2	12q14.1
LU7_L	3	12	12	56,365,632	50,917,010	12q13.2	12q13.12
LU11_AD	13	12	12	56,399,730	57,983,275	12q13.2	12q13.3
LU11_L	15	12	12	56,400,208	57,980,063	12q13.2	12q13.3
LU11_L	13	12	18	56,404,650	35,820,046	12q13.2	18q12.2
LU11_AD	9	12	18	56,409,767	35,819,336	12q13.2	18q12.2
LU11_AD	13	12	12	56,417,131	57,979,851	12q13.2	12q13.3
LU11_L	4	12	12	56,417,287	57,980,189	12q13.2	12q13.3
LU11_AD	6	12	12	56,417,758	49,975,265	12q13.2	12q13.12
LU18_L	5	20	20	56,428,423	56,462,877	20q13.31	20q13.31
LU11_L	7	12	12	56,429,740	43,045,311	12q13.2	12q12
LU11_L	11	12	12	56,436,034	43,029,660	12q13.2	12q12
LU11_AD	14	12	12	56,437,692	43,029,754	12q13.2	12q12
LU12_L	4	19	19	56,452,003	56,780,905	19q13.43	19q13.43
LU11_L	5	20	7	56,455,619	73,123,141	20q13.31	7q11.23
LU18_L	5	20	20	56,462,877	56,428,423	20q13.31	20q13.31
LU8_AD	3	8	8	56,488,127	56,527,197	8q12.1	8q12.1
LU8_AD	3	8	8	56,527,197	56,488,127	8q12.1	8q12.1
LU11_L	8	20	12	56,527,461	43,058,591	20q13.32	12q12
LU7_L	4	12	12	56,548,627	70,058,686	12q13.2	12q15
LU7_AD	11	12	12	56,548,878	50,606,910	12q13.2	12q13.12
LU7_AD	5	12	12	56,549,047	70,058,727	12q13.2	12q15
LU7_L	13	12	12	56,553,510	50,605,720	12q13.2	12q13.12
LU11_L	4	12	12	56,554,024	107,144,272	12q13.2	12q23.3
LU11_L	7	12	12	56,554,514	49,100,538	12q13.2	12q13.12
LU11_L	24	12	18	56,561,234	31,585,213	12q13.2	18q12.1
LU11_L	22	12	12	56,573,324	107,271,757	12q13.2	12q23.3
LU15_AD	16	20	9	56,583,209	2,810,915	20q13.32	9p24.2
LU15_L	7	20	9	56,584,482	2,812,050	20q13.32	9p24.2
LU18_L	3	11	11	56,616,886	6,204,018	11q12.1	11p15.4
LU18_AD	5	11	11	56,617,112	6,206,175	11q12.1	11p15.4
LU21_L	3	8	1	56,618,994	92,128,182	8q12.1	1p22.1
LU4_L	3	7	19	56,646,298	23,524,640	7p11.2	19p12
LU11_AD	11	12	12	56,654,563	106,975,678	12q13.3	12q23.3
LU11_AD	10	12	12	56,654,654	68,833,957	12q13.3	12q15
LU11_L	6	12	12	56,654,999	106,975,753	12q13.3	12q23.3
LU14_AD	3	1	1	56,661,896	56,692,580	1p32.2	1p32.2
LU14_AD	3	1	1	56,692,580	56,661,896	1p32.2	1p32.2
LU4_L	3	5	14	56,720,235	22,480,559	5q11.2	14q11.2
LU20_AD	5	6	17	56,757,831	25,560,225	6p12.1	17q11.1
LU12_L	4	19	19	56,780,905	56,452,003	19q13.43	19q13.43
LU4_AD	3	5	16	56,818,072	31,906,485	5q11.2	16p11.2
LU4_AD	4	5	5	56,826,352	164,820,355	5q11.2	5q34
LU11_L	3	12	18	56,870,937	31,450,616	12q13.3	18q12.1

LU4_AD	5	5	23	56,874,203	96,419,351	5q11.2	Xq21.33
LU11_L	4	12	12	56,880,800	107,125,964	12q13.3	12q23.3
LU8_L	4	6	2	56,895,132	99,812,670	6p12.1	2q11.2
LU21_AD	20	8	8	56,918,641	57,880,248	8q12.1	8q12.1
LU21_L	20	8	8	56,918,996	57,881,653	8q12.1	8q12.1
LU11_L	7	12	18	56,923,347	32,115,502	12q13.3	18q12.1
LU4_AD	3	7	7	56,923,588	75,706,779	7p11.2	7q11.23
LU20_AD	4	2	24	56,946,067	23,876,064	2p16.1	Yq11.223
LU11_L	8	12	12	56,965,073	115,138,941	12q13.3	12q24.21
LU11_L	6	12	12	56,968,493	115,092,357	12q13.3	12q24.21
LU11_L	4	12	18	56,974,406	32,110,796	12q13.3	18q12.1
LU7_L	3	13	13	56,983,507	57,034,829	13q21.1	13q21.1
LU21_AD	3	15	15	57,008,263	57,042,722	15q21.3	15q21.3
LU8_L	5	13	13	57,024,375	52,549,941	13q21.1	13q14.3
LU7_L	3	12	12	57,024,437	54,565,041	12q13.3	12q13.13
LU7_L	4	12	12	57,029,578	50,879,435	12q13.3	12q13.12
LU7_L	3	13	13	57,034,829	56,983,507	13q21.1	13q21.1
LU21_AD	3	15	15	57,042,722	57,008,263	15q21.3	15q21.3
LU3_AD	3	10	10	57,047,905	57,091,231	10q21.1	10q21.1
LU21_L	10	8	8	57,057,994	57,768,653	8q12.1	8q12.1
LU3_AD	3	10	10	57,091,231	57,047,905	10q21.1	10q21.1
LU11_AD	28	20	18	57,110,212	36,542,992	20q13.32	18q12.2
LU11_AD	18	20	18	57,114,558	28,171,729	20q13.32	18q12.1
LU11_L	5	20	18	57,115,076	28,173,214	20q13.32	18q12.1
LU3_L	3	13	13	57,123,923	57,165,330	13q21.1	13q21.1
LU11_AD	31	20	18	57,139,456	33,015,429	20q13.32	18q12.2
LU11_L	5	20	18	57,139,489	33,018,221	20q13.32	18q12.2
LU8_L	5	13	1	57,144,496	94,283,474	13q21.1	1p22.1
LU11_AD	70	20	12	57,146,778	48,805,071	20q13.32	12q13.11
LU11_L	12	20	12	57,150,834	48,812,023	20q13.32	12q13.11
LU3_L	3	13	13	57,165,330	57,123,923	13q21.1	13q21.1
LU11_AD	21	12	12	57,231,053	49,981,389	12q13.3	12q13.12
LU11_AD	11	12	12	57,237,471	57,622,271	12q13.3	12q13.3
LU3_AD	4	6	8	57,254,007	119,240,584	6p11.2	8q24.12
LU7_AD	5	12	12	57,333,866	50,296,348	12q13.3	12q13.12
LU7_L	10	12	12	57,333,894	50,296,493	12q13.3	12q13.12
LU7_L	27	12	12	57,370,003	50,298,886	12q13.3	12q13.12
LU7_AD	11	12	12	57,380,081	50,295,173	12q13.3	12q13.12
LU7_L	3	12	12	57,399,441	59,094,920	12q13.3	12q14.1
LU4_AD	7	1	1	57,431,323	150,612,695	1p32.2	1q21.3
LU4_AD	3	2	7	57,457,309	148,011,197	2p16.1	7q36.1
LU3_L	5	6	6	57,494,526	57,525,248	6p11.2	6p11.2
LU21_L	3	16	21	57,499,816	16,127,660	16q21	21q11.2
LU3_L	5	6	6	57,525,248	57,494,526	6p11.2	6p11.2

LU14_AD	5	19	15	57,535,903	64,825,801	19q13.43	15q22.31
LU12_AD	3	13	1	57,545,478	226,803,858	13q21.1	1q42.12
LU3_L	3	6	5	57,551,276	21,562,877	6p11.2	5p14.3
LU11_AD	60	12	12	57,607,343	58,158,759	12q13.3	12q14.1
LU11_L	22	12	12	57,607,571	58,158,670	12q13.3	12q14.1
LU11_AD	29	12	12	57,618,162	49,972,040	12q13.3	12q13.12
LU11_L	10	12	12	57,619,391	49,972,132	12q13.3	12q13.12
LU11_AD	17	12	18	57,621,982	35,828,399	12q13.3	18q12.2
LU11_L	16	12	18	57,622,125	35,829,238	12q13.3	18q12.2
LU11_AD	11	12	12	57,622,271	57,237,471	12q13.3	12q13.3
LU3_L	3	6	8	57,625,688	146,246,609	6p11.2	8q24.3
LU21_L	5	6	8	57,626,636	146,249,883	6p11.2	8q24.3
LU12_AD	3	11	11	57,638,832	81,407,103	11q12.1	11q14.1
LU21_L	10	8	8	57,768,653	57,057,994	8q12.1	8q12.1
LU16_AD	3	19	19	57,792,111	57,832,509	19q13.43	19q13.43
LU12_L	4	14	6	57,799,594	42,119,223	14q22.3	6p21.1
LU12_L	3	7	7	57,830,507	57,881,946	7p11.2	7p11.2
LU16_AD	3	19	19	57,832,509	57,792,111	19q13.43	19q13.43
LU7_AD	20	12	12	57,870,542	58,925,373	12q13.3	12q14.1
LU7_L	22	12	12	57,870,913	58,926,185	12q13.3	12q14.1
LU7_L	7	12	12	57,873,673	56,256,361	12q13.3	12q13.2
LU6_L	3	16	5	57,877,261	126,928,044	16q21	5q23.2
LU21_AD	20	8	8	57,880,248	56,918,641	8q12.1	8q12.1
LU21_L	20	8	8	57,881,653	56,918,996	8q12.1	8q12.1
LU12_L	3	7	7	57,881,946	57,830,507	7p11.2	7p11.2
LU18_L	78	12	15	57,890,354	22,734,656	12q13.3	15q11.2
LU18_AD	68	12	15	57,890,928	22,734,569	12q13.3	15q11.2
LU18_L	7	12	15	57,892,199	22,744,188	12q13.3	15q11.2
LU18_L	3	7	9	57,897,363	45,428,097	7p11.2	9p11.2
LU3_L	3	2	2	57,922,197	57,959,266	2p16.1	2p16.1
LU4_AD	15	5	5	57,938,433	177,410,532	5q11.2	5q35.3
LU4_AD	20	5	5	57,956,969	62,847,701	5q11.2	5q12.1
LU3_L	3	2	2	57,959,266	57,922,197	2p16.1	2p16.1
LU11_AD	9	12	12	57,979,742	49,974,869	12q13.3	12q13.12
LU11_AD	13	12	12	57,979,851	56,417,131	12q13.3	12q13.2
LU11_L	15	12	12	57,980,063	56,400,208	12q13.3	12q13.2
LU11_L	4	12	12	57,980,189	56,417,287	12q13.3	12q13.2
LU11_L	6	12	12	57,980,191	49,976,137	12q13.3	12q13.12
LU11_AD	13	12	12	57,983,275	56,399,730	12q13.3	12q13.2
LU18_L	13	12	15	58,010,727	22,823,597	12q13.3	15q11.2
LU18_AD	7	12	15	58,012,149	22,820,909	12q13.3	15q11.2
LU21_AD	3	4	3	58,034,859	112,766,010	4q12	3q13.2
LU18_AD	3	12	5	58,051,467	40,325,801	12q13.3	5p13.1
LU18_AD	10	12	12	58,088,954	67,655,463	12q13.3	12q14.3

LU18_L	15	12	12	58,090,821	67,655,328	12q13.3	12q14.3
LU18_L	4	20	2	58,130,742	109,145,111	20q13.32	2q12.3
LU11_L	17	12	12	58,136,937	49,867,972	12q14.1	12q13.12
LU11_AD	6	12	12	58,138,076	49,867,462	12q14.1	12q13.12
LU11_L	24	12	12	58,139,664	48,482,618	12q14.1	12q13.11
LU11_AD	32	12	12	58,141,149	48,481,534	12q14.1	12q13.11
LU11_AD	21	12	12	58,142,128	49,963,749	12q14.1	12q13.12
LU8_L	3	13	13	58,143,147	58,193,708	13q21.1	13q21.1
LU3_AD	4	19	6	58,158,665	91,711,932	19q13.43	6q15
LU11_L	22	12	12	58,158,670	57,607,571	12q14.1	12q13.3
LU11_AD	60	12	12	58,158,759	57,607,343	12q14.1	12q13.3
LU20_AD	4	14	4	58,189,674	100,952,226	14q23.1	4q23
LU20_AD	3	14	6	58,190,367	19,403,734	14q23.1	6p22.3
LU8_L	3	13	13	58,193,708	58,143,147	13q21.1	13q21.1
LU11_L	6	12	12	58,197,342	62,279,711	12q14.1	12q14.1
LU11_L	6	12	18	58,200,101	36,025,545	12q14.1	18q12.2
LU11_AD	27	12	12	58,200,746	62,279,180	12q14.1	12q14.1
LU21_L	4	17	17	58,203,552	60,353,876	17q23.1	17q23.2
LU7_AD	4	12	12	58,203,736	53,495,541	12q14.1	12q13.13
LU18_AD	14	12	5	58,216,636	912,009	12q14.1	5p15.33
LU18_L	11	12	5	58,217,077	912,090	12q14.1	5p15.33
LU3_L	5	12	12	58,302,137	80,431,192	12q14.1	12q21.31
LU4_AD	9	19	5	58,358,952	164,631,878	19q13.43	5q34
LU3_L	3	12	7	58,362,689	63,980,437	12q14.1	7q11.21
LU3_AD	4	12	12	58,427,110	47,113,140	12q14.1	12q13.11
LU8_AD	3	11	3	58,432,327	112,245,854	11q12.1	3q13.2
LU21_AD	3	4	4	58,438,623	58,471,561	4q12	4q12
LU21_AD	3	4	4	58,471,561	58,438,623	4q12	4q12
LU11_L	28	12	12	58,475,695	49,960,673	12q14.1	12q13.12
LU11_AD	28	12	12	58,475,763	49,960,632	12q14.1	12q13.12
LU18_L	6	10	5	58,482,123	137,842,275	10q21.1	5q31.2
LU4_L	3	19	23	58,506,514	152,506,042	19q13.43	Xq28
LU11_AD	3	12	18	58,507,327	33,601,441	12q14.1	18q12.2
LU11_L	6	12	12	58,510,894	62,226,849	12q14.1	12q14.1
LU11_L	12	12	12	58,520,885	108,022,549	12q14.1	12q23.3
LU8_AD	3	6	12	58,582,345	79,869,218	6p11.2	12q21.2
LU21_AD	5	6	19	58,583,054	41,967,424	6p11.2	19q13.2
LU14_AD	3	6	12	58,586,140	79,865,363	6p11.2	12q21.2
LU7_L	7	12	7	58,665,692	2,178,343	12q14.1	7p22.3
LU7_L	4	12	7	58,669,543	5,748,915	12q14.1	7p22.1
LU7_L	6	12	12	58,671,917	67,840,585	12q14.1	12q15
LU3_L	3	15	15	58,732,818	58,766,194	15q21.3	15q21.3
LU3_L	3	15	15	58,766,194	58,732,818	15q21.3	15q21.3
LU15_L	10	20	9	58,778,096	2,574,835	20q13.33	9p24.2

LU20_AD	3	15	15	58,800,704	58,830,996	15q21.3	15q21.3
LU20_AD	3	15	15	58,830,996	58,800,704	15q21.3	15q21.3
LU11_L	16	12	12	58,848,881	43,210,338	12q14.1	12q12
LU11_L	8	8	12	58,876,183	67,509,957	8q12.1	12q14.3
LU7_AD	20	12	12	58,925,373	57,870,542	12q14.1	12q13.3
LU7_L	22	12	12	58,926,185	57,870,913	12q14.1	12q13.3
LU18_L	7	15	18	58,943,378	41,016,919	15q21.3	18q12.3
LU11_L	7	8	8	58,956,326	140,117,413	8q12.1	8q24.3
LU7_L	3	19	7	58,959,572	38,616,740	19q13.43	7p14.1
LU11_L	11	8	8	58,972,249	37,748,224	8q12.1	8p11.23
LU11_L	3	12	20	59,043,916	25,167,735	12q14.1	20p11.21
LU7_L	3	12	12	59,094,920	57,399,441	12q14.1	12q13.3
LU16_AD	3	14	14	59,097,946	51,227,826	14q23.1	14q22.1
LU4_AD	46	5	5	59,194,839	159,875,769	5q12.1	5q33.3
LU4_L	3	5	5	59,195,496	159,881,337	5q12.1	5q33.3
LU4_AD	37	5	5	59,198,365	172,152,688	5q12.1	5q35.1
LU11_L	8	12	12	59,204,836	107,061,661	12q14.1	12q23.3
LU11_L	11	12	12	59,207,505	69,187,038	12q14.1	12q15
LU16_AD	5	18	18	59,220,973	64,887,075	18q21.33	18q22.1
LU11_L	6	12	12	59,228,968	56,333,358	12q14.1	12q13.2
LU3_AD	3	8	8	59,241,435	59,271,916	8q12.1	8q12.1
LU15_L	5	12	6	59,245,306	65,718,904	12q14.1	6q12
LU12_L	4	12	12	59,246,818	85,190,113	12q14.1	12q21.31
LU11_L	13	12	12	59,247,778	62,274,416	12q14.1	12q14.1
LU11_L	36	12	12	59,249,825	62,643,644	12q14.1	12q14.1
LU8_AD	3	12	14	59,252,436	22,705,105	12q14.1	14q11.2
LU11_AD	16	12	12	59,254,124	62,643,460	12q14.1	12q14.1
LU11_L	3	8	18	59,264,818	35,959,837	8q12.1	18q12.2
LU3_AD	3	8	8	59,271,916	59,241,435	8q12.1	8q12.1
LU15_L	3	20	9	59,315,490	2,481,256	20q13.33	9p24.2
LU21_AD	3	4	1	59,327,319	161,220,671	4q12	1q23.3
LU12_L	4	10	2	59,346,650	150,156,774	10q21.1	2q23.2
LU4_L	22	16	16	59,413,795	61,514,920	16q21	16q21
LU4_AD	34	16	16	59,415,898	61,512,924	16q21	16q21
LU15_AD	9	20	9	59,510,914	38,603,164	20q13.33	9p13.1
LU15_AD	12	20	9	59,512,602	33,537,594	20q13.33	9p13.3
LU15_L	5	20	9	59,515,182	33,538,952	20q13.33	9p13.3
LU4_L	15	16	16	59,537,790	63,174,449	16q21	16q21
LU4_AD	30	16	16	59,538,863	63,172,589	16q21	16q21
LU7_L	35	12	12	59,648,892	68,550,976	12q14.1	12q15
LU7_AD	12	12	12	59,650,305	68,551,187	12q14.1	12q15
LU14_L	3	11	12	59,693,414	103,059,241	11q12.1	12q23.2
LU7_L	3	12	12	59,700,471	59,732,090	12q14.1	12q14.1
LU7_L	3	12	12	59,711,537	65,857,971	12q14.1	12q14.3

LU16_L	3	12	4	59,715,230	89,075,008	12q14.1	4q22.1
LU4_AD	3	5	5	59,723,035	59,755,786	5q12.1	5q12.1
LU7_L	3	12	12	59,732,090	59,700,471	12q14.1	12q14.1
LU7_AD	12	12	12	59,734,548	62,270,969	12q14.1	12q14.1
LU4_L	4	4	4	59,736,845	59,789,926	4q13.1	4q13.1
LU7_L	20	12	12	59,738,839	62,267,606	12q14.1	12q14.1
LU4_AD	3	5	5	59,755,786	59,723,035	5q12.1	5q12.1
LU4_AD	3	18	18	59,788,008	59,817,614	18q21.33	18q21.33
LU4_L	4	4	4	59,789,926	59,736,845	4q13.1	4q13.1
LU21_AD	4	20	3	59,793,396	126,880,110	20q13.33	3q21.3
LU4_AD	3	18	18	59,817,614	59,788,008	18q21.33	18q21.33
LU12_L	22	8	8	59,819,840	5,199,396	8q12.1	8p23.2
LU11_AD	4	20	20	59,837,967	61,911,946	20q13.33	20q13.33
LU7_AD	8	12	12	59,865,956	67,603,725	12q14.1	12q14.3
LU18_AD	13	11	12	59,870,902	68,939,437	11q12.1	12q15
LU18_L	15	11	12	59,871,820	68,938,258	11q12.1	12q15
LU18_L	6	12	5	59,926,642	98,530,472	12q14.1	5q21.1
LU18_AD	4	12	13	59,928,682	93,748,243	12q14.1	13q31.3
LU7_AD	3	5	6	59,955,703	85,429,073	5q12.1	6q14.3
LU21_AD	4	5	6	59,958,936	85,425,579	5q12.1	6q14.3
LU21_L	7	20	20	60,015,839	55,007,907	20q13.33	20q13.31
LU3_AD	5	1	1	60,026,653	60,059,393	1p32.1	1p32.1
LU3_AD	5	1	1	60,059,393	60,026,653	1p32.1	1p32.1
LU20_AD	3	20	20	60,118,100	60,591,127	20q13.33	20q13.33
LU11_AD	17	20	12	60,145,128	42,996,032	20q13.33	12q12
LU7_L	7	12	12	60,194,731	50,471,028	12q14.1	12q13.12
LU18_L	3	2	2	60,239,737	60,285,268	2p16.1	2p16.1
LU7_L	16	15	15	60,242,452	60,383,683	15q22.2	15q22.2
LU4_AD	5	16	16	60,247,880	49,126,168	16q21	16q12.1
LU4_L	9	16	16	60,248,294	49,126,661	16q21	16q12.1
LU7_L	11	12	12	60,255,045	65,232,441	12q14.1	12q14.3
LU7_AD	7	12	12	60,255,754	65,231,667	12q14.1	12q14.3
LU3_L	6	12	12	60,257,490	77,140,802	12q14.1	12q21.2
LU16_L	3	20	20	60,260,590	60,332,208	20q13.33	20q13.33
LU7_L	4	12	12	60,262,483	56,117,616	12q14.1	12q13.2
LU18_L	3	2	2	60,285,268	60,239,737	2p16.1	2p16.1
LU16_L	3	20	20	60,332,208	60,260,590	20q13.33	20q13.33
LU4_AD	11	16	16	60,344,786	65,274,020	16q21	16q21
LU4_L	6	16	16	60,345,876	65,274,087	16q21	16q21
LU21_L	4	17	17	60,353,876	58,203,552	17q23.2	17q23.1
LU3_AD	4	14	14	60,374,266	60,410,633	14q23.1	14q23.1
LU7_L	16	15	15	60,383,683	60,242,452	15q22.2	15q22.2
LU3_AD	4	14	14	60,410,633	60,374,266	14q23.1	14q23.1
LU7_L	8	12	12	60,424,208	62,221,966	12q14.1	12q14.1

LU7_L	4	12	12	60,426,195	64,797,180	12q14.1	12q14.2
LU11_AD	17	2	2	60,432,276	124,951,130	2p16.1	2q14.3
LU6_AD	7	1	1	60,438,612	61,304,180	1p32.1	1p31.3
LU15_AD	12	20	9	60,517,764	34,967,382	20q13.33	9p13.3
LU15_L	5	20	9	60,520,408	34,965,996	20q13.33	9p13.3
LU12_L	12	8	8	60,541,636	70,862,778	8q12.1	8q13.3
LU20_AD	3	20	20	60,591,127	60,118,100	20q13.33	20q13.33
LU14_AD	6	12	12	60,732,060	49,644,589	12q14.1	12q13.12
LU3_AD	3	1	1	60,735,369	60,766,934	1p32.1	1p32.1
LU16_L	3	18	17	60,759,029	66,256,707	18q21.33	17q24.2
LU21_L	10	5	5	60,760,783	57,922,349	5q12.1	5q11.2
LU21_AD	3	5	5	60,762,052	57,924,191	5q12.1	5q11.2
LU3_AD	3	1	1	60,766,934	60,735,369	1p32.1	1p32.1
LU7_L	7	12	2	60,789,225	243,153,672	12q14.1	2q37.3
LU7_AD	10	12	12	60,801,189	56,311,080	12q14.1	12q13.2
LU4_AD	5	11	11	60,809,757	60,844,646	11q12.2	11q12.2
LU4_AD	5	11	11	60,844,646	60,809,757	11q12.2	11q12.2
LU3_AD	3	3	3	60,864,997	60,902,073	3p14.2	3p14.2
LU3_AD	3	3	3	60,902,073	60,864,997	3p14.2	3p14.2
LU18_L	3	16	16	60,906,105	60,956,480	16q21	16q21
LU14_AD	4	18	11	60,927,738	112,027,682	18q21.33	11q23.1
LU14_L	6	18	11	60,928,545	112,024,650	18q21.33	11q23.1
LU18_L	3	16	16	60,956,480	60,906,105	16q21	16q21
LU15_AD	13	17	17	61,048,368	61,083,255	17q23.2	17q23.2
LU15_L	16	17	17	61,049,107	61,083,324	17q23.2	17q23.2
LU5_AD	3	1	1	61,059,078	61,091,209	1p32.1	1p32.1
LU15_AD	13	17	17	61,083,255	61,048,368	17q23.2	17q23.2
LU15_L	16	17	17	61,083,324	61,049,107	17q23.2	17q23.2
LU5_AD	3	1	1	61,091,209	61,059,078	1p32.1	1p32.1
LU11_AD	4	2	2	61,115,901	61,164,450	2p16.1	2p16.1
LU11_AD	3	2	2	61,116,819	124,954,660	2p16.1	2q14.3
LU4_AD	5	5	5	61,148,207	172,423,822	5q12.1	5q35.1
LU11_AD	3	2	2	61,163,918	124,957,141	2p16.1	2q14.3
LU11_AD	4	2	2	61,164,450	61,115,901	2p16.1	2p16.1
LU7_L	5	12	12	61,205,776	62,008,676	12q14.1	12q14.1
LU7_AD	11	12	12	61,207,682	68,832,863	12q14.1	12q15
LU7_L	17	12	12	61,207,721	68,832,801	12q14.1	12q15
LU7_AD	8	12	12	61,209,087	62,005,109	12q14.1	12q14.1
LU7_L	7	12	12	61,213,228	65,454,342	12q14.1	12q14.3
LU18_AD	3	5	5	61,249,422	61,281,287	5q12.1	5q12.1
LU20_AD	5	16	16	61,262,330	61,296,998	16q21	16q21
LU4_AD	5	16	16	61,268,802	202,449	16q21	16p13.3
LU18_AD	3	5	5	61,281,287	61,249,422	5q12.1	5q12.1
LU20_AD	5	16	16	61,296,998	61,262,330	16q21	16q21

LU6_AD	7	1	1	61,304,180	60,438,612	1p31.3	1p32.1
LU7_AD	16	12	12	61,328,781	66,652,298	12q14.1	12q14.3
LU7_L	38	12	12	61,329,111	66,652,821	12q14.1	12q14.3
LU7_AD	8	12	12	61,332,863	72,054,181	12q14.1	12q21.1
LU7_L	22	12	12	61,334,496	72,053,851	12q14.1	12q21.1
LU8_L	4	15	6	61,413,603	68,970,109	15q22.2	6q12
LU8_L	4	15	6	61,441,840	68,992,805	15q22.2	6q12
LU4_AD	34	16	16	61,512,924	59,415,898	16q21	16q21
LU4_L	22	16	16	61,514,920	59,413,795	16q21	16q21
LU7_AD	4	12	12	61,518,525	63,069,998	12q14.1	12q14.1
LU7_L	4	12	12	61,518,874	63,068,146	12q14.1	12q14.1
LU7_AD	4	12	12	61,522,655	56,361,722	12q14.1	12q13.2
LU18_L	3	10	4	61,525,378	174,025,280	10q21.2	4q34.1
LU3_AD	19	17	17	61,535,356	61,566,155	17q23.3	17q23.3
LU21_AD	5	4	4	61,541,030	90,989,640	4q13.1	4q22.1
LU7_AD	6	12	12	61,543,765	62,958,837	12q14.1	12q14.1
LU7_L	7	12	12	61,543,938	62,959,491	12q14.1	12q14.1
LU4_AD	13	16	16	61,544,697	63,207,865	16q21	16q21
LU4_L	5	16	16	61,546,375	63,205,561	16q21	16q21
LU4_AD	13	16	16	61,546,497	51,028,763	16q21	16q12.1
LU7_L	25	12	12	61,561,066	66,948,267	12q14.1	12q14.3
LU3_AD	19	17	17	61,566,155	61,535,356	17q23.3	17q23.3
LU3_L	7	8	10	61,597,624	119,981,475	8q12.2	10q26.11
LU7_AD	15	12	10	61,603,349	24,416,320	12q14.1	10p12.2
LU7_L	38	12	10	61,604,354	24,416,232	12q14.1	10p12.2
LU7_L	7	12	15	61,641,000	41,398,267	12q14.1	15q15.1
LU4_AD	10	16	16	61,650,198	62,112,798	16q21	16q21
LU21_L	4	18	18	61,653,599	61,684,080	18q22.1	18q22.1
LU12_AD	4	13	2	61,665,368	204,829,287	13q21.2	2q33.2
LU7_L	6	12	12	61,677,639	69,079,054	12q14.1	12q15
LU21_L	4	18	18	61,684,080	61,653,599	18q22.1	18q22.1
LU3_AD	4	13	14	61,795,268	23,178,718	13q21.2	14q11.2
LU7_L	12	12	12	61,796,587	68,982,333	12q14.1	12q15
LU3_L	3	11	24	61,816,741	2,754,821	11q12.3	Yp11.31
LU3_L	3	7	1	61,818,197	242,482,271	7q11.21	1q43
LU12_AD	3	11	14	61,818,759	28,888,290	11q12.3	14q12
LU16_AD	4	8	8	61,821,052	61,854,966	8q12.2	8q12.2
LU16_AD	4	8	8	61,854,966	61,821,052	8q12.2	8q12.2
LU7_L	4	12	7	61,868,602	50,449,946	12q14.1	7p12.2
LU15_AD	4	20	9	61,899,660	42,298,738	20q13.33	9p12
LU11_AD	4	20	20	61,911,946	59,837,967	20q13.33	20q13.33
LU3_L	3	18	18	61,912,358	61,946,725	18q22.1	18q22.1
LU7_L	4	12	7	61,929,028	38,100,591	12q14.1	7p14.1
LU7_AD	5	12	7	61,930,214	38,099,573	12q14.1	7p14.1

LU4_L	3	10	10	61,936,621	61,966,666	10q21.2	10q21.2
LU4_AD	8	5	5	61,937,485	172,730,332	5q12.1	5q35.1
LU3_L	3	18	18	61,946,725	61,912,358	18q22.1	18q22.1
LU11_AD	24	12	12	61,949,808	69,477,514	12q14.1	12q15
LU11_L	19	12	12	61,950,290	69,477,169	12q14.1	12q15
LU4_L	3	10	10	61,966,666	61,936,621	10q21.2	10q21.2
LU7_L	8	12	12	61,971,508	68,456,708	12q14.1	12q15
LU7_AD	8	12	12	62,005,109	61,209,087	12q14.1	12q14.1
LU7_L	5	12	12	62,008,676	61,205,776	12q14.1	12q14.1
LU16_AD	5	23	23	62,045,184	62,075,195	Xq11.1	Xq11.1
LU4_AD	13	16	16	62,073,284	34,419,833	16q21	16p11.2
LU16_AD	5	23	23	62,075,195	62,045,184	Xq11.1	Xq11.1
LU4_AD	10	16	16	62,112,798	61,650,198	16q21	16q21
LU4_L	13	16	16	62,131,211	4,180,489	16q21	16p13.3
LU4_AD	12	16	16	62,133,074	4,179,466	16q21	16p13.3
LU11_L	7	12	12	62,157,367	48,895,287	12q14.1	12q13.11
LU14_AD	13	12	12	62,171,142	62,244,310	12q14.1	12q14.1
LU4_AD	26	16	1	62,174,891	22,844,213	16q21	1p36.12
LU4_L	10	16	1	62,176,373	22,843,106	16q21	1p36.12
LU4_AD	9	5	5	62,214,523	63,092,399	5q12.1	5q12.2
LU7_L	12	12	12	62,216,645	66,508,625	12q14.1	12q14.3
LU15_AD	5	14	9	62,218,806	21,974,528	14q23.2	9p21.3
LU7_L	8	12	12	62,221,966	60,424,208	12q14.1	12q14.1
LU11_L	5	12	12	62,225,898	49,517,782	12q14.1	12q13.12
LU11_L	6	12	12	62,226,849	58,510,894	12q14.1	12q14.1
LU14_AD	15	12	12	62,233,799	48,024,712	12q14.1	12q13.11
LU14_AD	13	12	12	62,244,310	62,171,142	12q14.1	12q14.1
LU7_L	20	12	12	62,267,606	59,738,839	12q14.1	12q14.1
LU7_AD	12	12	12	62,270,969	59,734,548	12q14.1	12q14.1
LU11_L	13	12	12	62,274,416	59,247,778	12q14.1	12q14.1
LU11_AD	27	12	12	62,279,180	58,200,746	12q14.1	12q14.1
LU11_L	6	12	12	62,279,711	58,197,342	12q14.1	12q14.1
LU3_L	3	6	3	62,314,175	161,872,892	6q11.1	3q26.1
LU18_L	3	15	12	62,503,884	69,596,779	15q22.2	12q15
LU8_L	3	15	15	62,505,606	51,576,768	15q22.2	15q21.2
LU4_AD	3	13	9	62,517,155	108,557,895	13q21.31	9q31.2
LU4_L	4	15	15	62,533,077	72,963,342	15q22.2	15q24.1
LU7_AD	9	12	12	62,544,739	55,242,182	12q14.1	12q13.2
LU7_L	16	12	12	62,547,612	55,239,310	12q14.1	12q13.2
LU7_AD	18	12	12	62,550,791	66,656,328	12q14.1	12q14.3
LU7_L	43	12	12	62,551,146	66,655,901	12q14.1	12q14.3
LU18_L	3	15	15	62,560,964	78,218,939	15q22.2	15q24.3
LU18_L	3	15	15	62,561,594	22,737,006	15q22.2	15q11.2
LU20_AD	4	15	2	62,567,131	71,443,018	15q22.2	2p13.3

LU18_L	4	15	2	62,567,291	71,447,017	15q22.2	2p13.3
LU20_AD	5	5	5	62,575,289	62,606,590	5q12.1	5q12.1
LU11_AD	35	12	18	62,580,187	36,142,124	12q14.1	18q12.2
LU11_L	64	12	18	62,580,465	36,140,408	12q14.1	18q12.2
LU11_L	4	12	18	62,586,101	35,884,870	12q14.1	18q12.2
LU20_AD	5	5	5	62,606,590	62,575,289	5q12.1	5q12.1
LU11_AD	16	12	12	62,643,460	59,254,124	12q14.1	12q14.1
LU11_L	36	12	12	62,643,644	59,249,825	12q14.1	12q14.1
LU21_AD	3	1	5	62,644,560	24,308,247	1p31.3	5p14.2
LU4_AD	3	1	15	62,648,657	51,575,010	1p31.3	15q21.2
LU5_L	3	13	13	62,649,270	62,679,758	13q21.31	13q21.31
LU7_L	38	12	12	62,665,915	66,604,319	12q14.1	12q14.3
LU7_AD	21	12	12	62,666,079	66,602,763	12q14.1	12q14.3
LU16_L	4	1	13	62,676,376	102,669,922	1p31.3	13q33.1
LU5_L	3	13	13	62,679,758	62,649,270	13q21.31	13q21.31
LU4_AD	7	5	5	62,701,103	63,964,192	5q12.1	5q12.3
LU7_AD	23	12	12	62,740,699	67,966,155	12q14.1	12q15
LU7_L	35	12	12	62,744,859	67,957,086	12q14.1	12q15
LU20_L	3	4	4	62,785,367	62,816,579	4q13.1	4q13.1
LU4_AD	3	2	2	62,792,267	62,828,381	2p15	2p15
LU4_AD	22	5	5	62,793,112	159,905,418	5q12.1	5q34
LU20_L	3	4	4	62,816,579	62,785,367	4q13.1	4q13.1
LU4_AD	3	2	2	62,828,381	62,792,267	2p15	2p15
LU3_L	6	12	12	62,828,795	76,954,885	12q14.1	12q21.2
LU4_AD	13	16	16	62,837,648	62,868,477	16q21	16q21
LU20_AD	4	5	5	62,843,996	62,878,993	5q12.1	5q12.1
LU4_AD	20	5	5	62,847,701	57,956,969	5q12.1	5q11.2
LU7_L	3	14	14	62,848,403	62,881,766	14q23.2	14q23.2
LU4_AD	13	16	16	62,868,477	62,837,648	16q21	16q21
LU20_AD	4	5	5	62,878,993	62,843,996	5q12.1	5q12.1
LU7_L	3	14	14	62,881,766	62,848,403	14q23.2	14q23.2
LU7_AD	6	12	12	62,958,837	61,543,765	12q14.1	12q14.1
LU7_L	7	12	12	62,959,491	61,543,938	12q14.1	12q14.1
LU7_L	7	12	12	62,963,167	50,908,351	12q14.1	12q13.12
LU7_AD	3	12	12	62,964,123	50,908,134	12q14.1	12q13.12
LU3_L	4	13	13	63,000,595	63,751,107	13q21.31	13q21.31
LU7_AD	6	12	12	63,034,237	49,753,600	12q14.1	12q13.12
LU7_L	3	12	12	63,036,316	49,752,917	12q14.1	12q13.12
LU7_L	5	12	12	63,037,541	50,567,351	12q14.1	12q13.12
LU7_L	4	12	12	63,068,146	61,518,874	12q14.1	12q14.1
LU18_L	21	12	15	63,068,945	20,005,375	12q14.1	15q11.1
LU18_AD	18	12	15	63,069,409	20,005,956	12q14.1	15q11.1
LU7_AD	4	12	12	63,069,998	61,518,525	12q14.1	12q14.1
LU7_L	4	12	12	63,070,689	49,739,903	12q14.1	12q13.12

LU4_AD	10	5	18	63,087,582	20,910,432	5q12.2	18q11.2
LU4_AD	9	5	5	63,092,399	62,214,523	5q12.2	5q12.1
LU8_L	3	1	1	63,111,424	63,141,907	1p31.3	1p31.3
LU8_L	3	1	1	63,141,907	63,111,424	1p31.3	1p31.3
LU4_AD	30	16	16	63,172,589	59,538,863	16q21	16q21
LU4_L	15	16	16	63,174,449	59,537,790	16q21	16q21
LU5_AD	4	4	4	63,197,324	63,233,874	4q13.1	4q13.1
LU18_L	4	7	1	63,199,342	224,144,763	7q11.21	1q42.11
LU4_L	5	16	16	63,205,561	61,546,375	16q21	16q21
LU20_L	3	7	7	63,205,584	75,705,631	7q11.21	7q11.23
LU4_AD	6	16	16	63,206,339	63,646,629	16q21	16q21
LU4_AD	13	16	16	63,207,865	61,544,697	16q21	16q21
LU5_AD	4	4	4	63,233,874	63,197,324	4q13.1	4q13.1
LU18_AD	4	12	6	63,399,661	157,720,178	12q14.2	6q25.3
LU16_AD	3	10	10	63,411,913	63,457,661	10q21.2	10q21.2
LU14_L	6	14	14	63,419,187	63,452,950	14q23.2	14q23.2
LU3_L	3	8	8	63,432,562	63,463,937	8q12.3	8q12.3
LU14_L	6	14	14	63,452,950	63,419,187	14q23.2	14q23.2
LU16_AD	3	10	10	63,457,661	63,411,913	10q21.2	10q21.2
LU7_AD	16	12	12	63,460,832	55,192,223	12q14.2	12q13.2
LU7_L	20	12	12	63,460,887	55,192,055	12q14.2	12q13.2
LU3_L	3	8	8	63,463,937	63,432,562	8q12.3	8q12.3
LU7_AD	16	12	12	63,475,164	72,058,482	12q14.2	12q21.1
LU7_L	49	12	12	63,475,829	72,058,445	12q14.2	12q21.1
LU3_AD	4	12	12	63,492,744	47,088,900	12q14.2	12q13.11
LU7_AD	6	6	7	63,557,035	99,558,200	6q12	7q22.1
LU16_L	3	7	5	63,573,378	34,182,840	7q11.21	5p13.2
LU4_AD	3	23	23	63,581,870	63,619,922	Xq11.2	Xq11.2
LU18_L	12	12	5	63,584,320	1,008,524	12q14.2	5p15.33
LU18_AD	14	12	5	63,584,827	1,009,042	12q14.2	5p15.33
LU18_AD	14	12	12	63,606,552	71,161,018	12q14.2	12q15
LU4_AD	3	23	23	63,619,922	63,581,870	Xq11.2	Xq11.2
LU4_AD	6	16	16	63,646,629	63,206,339	16q21	16q21
LU11_AD	3	11	12	63,679,813	94,534,600	11q13.1	12q22
LU4_AD	8	16	1	63,708,924	48,145,042	16q21	1p33
LU8_L	3	2	2	63,713,917	63,748,849	2p15	2p15
LU20_AD	3	1	1	63,714,567	63,744,691	1p31.3	1p31.3
LU3_L	3	10	10	63,719,135	63,749,371	10q21.2	10q21.2
LU18_L	24	12	2	63,743,104	165,844,314	12q14.2	2q24.3
LU18_L	67	12	15	63,743,275	21,920,313	12q14.2	15q11.2
LU18_AD	58	12	15	63,743,312	21,921,562	12q14.2	15q11.2
LU18_AD	15	12	15	63,743,784	21,924,425	12q14.2	15q11.2
LU20_AD	3	1	1	63,744,691	63,714,567	1p31.3	1p31.3
LU18_AD	35	12	2	63,744,775	165,842,686	12q14.2	2q24.3

LU8_L	3	2	2	63,748,849	63,713,917	2p15	2p15
LU3_L	3	10	10	63,749,371	63,719,135	10q21.2	10q21.2
LU3_L	4	13	13	63,751,107	63,000,595	13q21.31	13q21.31
LU7_L	10	12	7	63,825,095	28,844,035	12q14.2	7p14.3
LU7_AD	10	12	7	63,825,420	28,844,630	12q14.2	7p14.3
LU7_L	13	12	7	63,827,252	28,846,579	12q14.2	7p14.3
LU18_AD	9	12	12	63,838,247	69,532,460	12q14.2	12q15
LU11_L	5	12	12	63,874,075	69,428,257	12q14.2	12q15
LU11_AD	6	12	12	63,874,145	69,427,220	12q14.2	12q15
LU18_L	24	12	5	63,933,248	544,248	12q14.2	5p15.33
LU18_AD	34	12	5	63,933,251	543,683	12q14.2	5p15.33
LU11_L	11	12	12	63,938,054	69,641,045	12q14.2	12q15
LU11_AD	21	12	12	63,941,052	69,637,825	12q14.2	12q15
LU4_AD	7	5	5	63,964,192	62,701,103	5q12.3	5q12.1
LU11_AD	23	12	12	63,977,662	83,848,726	12q14.2	12q21.31
LU11_AD	36	12	12	63,977,781	66,179,539	12q14.2	12q14.3
LU11_L	4	12	12	63,980,250	66,179,901	12q14.2	12q14.3
LU3_L	3	7	12	63,980,437	58,362,689	7q11.21	12q14.1
LU4_AD	25	16	16	64,004,909	1,724,150	16q21	16p13.3
LU4_L	8	16	16	64,006,946	1,722,558	16q21	16p13.3
LU6_L	8	8	8	64,043,895	64,769,124	8q12.3	8q12.3
LU6_AD	7	8	8	64,045,180	64,767,197	8q12.3	8q12.3
LU20_L	3	4	10	64,052,718	37,567,962	4q13.1	10p11.21
LU4_AD	3	17	17	64,092,050	64,128,756	17q24.1	17q24.1
LU4_AD	3	17	17	64,128,756	64,092,050	17q24.1	17q24.1
LU21_AD	3	8	8	64,182,584	64,222,298	8q12.3	8q12.3
LU18_AD	4	12	5	64,208,194	2,822,963	12q14.2	5p15.33
LU7_L	7	12	7	64,216,120	2,600,065	12q14.2	7p22.3
LU21_AD	3	8	8	64,222,298	64,182,584	8q12.3	8q12.3
LU16_AD	12	12	14	64,239,308	67,399,030	12q14.2	14q23.3
LU18_AD	6	12	5	64,268,838	4,784,833	12q14.2	5p15.32
LU16_AD	26	12	12	64,280,551	76,601,352	12q14.2	12q21.2
LU16_L	4	12	12	64,284,063	76,603,666	12q14.2	12q21.2
LU18_AD	22	12	12	64,327,029	64,601,499	12q14.2	12q14.2
LU18_L	30	12	12	64,331,032	64,600,052	12q14.2	12q14.2
LU18_AD	7	12	15	64,332,089	23,211,126	12q14.2	15q11.2
LU18_L	7	12	15	64,332,091	23,211,854	12q14.2	15q11.2
LU18_L	8	12	12	64,332,182	68,674,338	12q14.2	12q15
LU18_AD	8	12	12	64,332,930	68,674,388	12q14.2	12q15
LU3_AD	4	12	12	64,338,912	64,373,554	12q14.2	12q14.2
LU3_AD	4	12	12	64,373,554	64,338,912	12q14.2	12q14.2
LU7_L	3	12	12	64,467,026	69,486,676	12q14.2	12q15
LU4_AD	5	5	5	64,468,413	37,782,454	5q12.3	5p13.2
LU12_L	3	5	4	64,470,471	36,905,102	5q12.3	4p14

LU20_AD	4	5	5	64,473,535	37,780,614	5q12.3	5p13.2
LU5_L	4	5	5	64,473,540	37,785,399	5q12.3	5p13.2
LU20_AD	4	5	16	64,481,974	46,390,711	5q12.3	16q11.2
LU4_L	3	23	23	64,497,071	64,526,669	Xq11.2	Xq11.2
LU14_AD	8	15	14	64,502,086	94,958,110	15q22.31	14q32.13
LU14_L	5	15	14	64,502,346	94,957,196	15q22.31	14q32.13
LU7_L	7	12	12	64,506,625	49,736,022	12q14.2	12q13.12
LU7_AD	7	12	12	64,507,788	49,734,221	12q14.2	12q13.12
LU4_L	3	23	23	64,526,669	64,497,071	Xq11.2	Xq11.2
LU4_L	3	16	16	64,529,049	46,887,821	16q21	16q11.2
LU4_AD	6	16	16	64,549,760	46,533,444	16q21	16q11.2
LU4_AD	5	3	3	64,580,869	64,612,752	3p14.1	3p14.1
LU20_AD	5	3	3	64,582,316	64,614,083	3p14.1	3p14.1
LU18_L	30	12	12	64,600,052	64,331,032	12q14.2	12q14.2
LU18_AD	22	12	12	64,601,499	64,327,029	12q14.2	12q14.2
LU8_AD	3	7	1	64,606,128	149,004,772	7q11.21	1q21.2
LU16_AD	7	3	3	64,609,171	64,758,335	3p14.1	3p14.1
LU4_AD	5	3	3	64,612,752	64,580,869	3p14.1	3p14.1
LU20_AD	5	3	3	64,614,083	64,582,316	3p14.1	3p14.1
LU4_AD	24	5	5	64,622,195	159,890,411	5q12.3	5q33.3
LU18_AD	3	12	5	64,627,753	20,629,242	12q14.2	5p14.3
LU20_L	3	14	14	64,628,311	64,663,120	14q23.2	14q23.2
LU16_AD	15	12	12	64,641,684	81,527,118	12q14.2	12q21.31
LU20_L	3	14	14	64,663,120	64,628,311	14q23.2	14q23.2
LU4_AD	8	16	16	64,697,759	49,004,642	16q21	16q12.1
LU4_L	5	16	16	64,698,082	49,004,951	16q21	16q12.1
LU18_AD	3	12	10	64,731,725	85,730,935	12q14.2	10q23.1
LU18_AD	4	6	5	64,737,719	96,650,465	6q12	5q15
LU3_L	3	6	12	64,740,316	95,843,079	6q12	12q22
LU16_AD	7	3	3	64,758,335	64,609,171	3p14.1	3p14.1
LU6_AD	7	8	8	64,767,197	64,045,180	8q12.3	8q12.3
LU6_L	8	8	8	64,769,124	64,043,895	8q12.3	8q12.3
LU3_AD	3	18	18	64,778,125	64,817,803	18q22.1	18q22.1
LU7_L	4	12	12	64,797,180	60,426,195	12q14.2	12q14.1
LU18_AD	6	12	5	64,806,576	2,881,400	12q14.2	5p15.33
LU18_L	15	12	5	64,806,729	2,881,087	12q14.2	5p15.33
LU7_AD	4	12	12	64,815,732	62,224,953	12q14.2	12q14.1
LU3_AD	3	18	18	64,817,803	64,778,125	18q22.1	18q22.1
LU7_L	8	12	12	64,819,124	62,222,439	12q14.2	12q14.1
LU14_AD	5	15	19	64,825,801	57,535,903	15q22.31	19q13.43
LU7_L	6	12	10	64,831,177	25,335,707	12q14.2	10p12.1
LU7_AD	6	12	10	64,831,466	25,333,058	12q14.2	10p12.1
LU12_AD	4	6	11	64,855,939	132,528,893	6q12	11q25
LU18_L	19	12	5	64,866,391	27,297,818	12q14.2	5p14.1

LU18_AD	20	12	5	64,867,070	27,296,016	12q14.2	5p14.1
LU4_L	3	17	17	64,877,845	64,911,448	17q24.2	17q24.2
LU16_AD	5	18	18	64,887,075	59,220,973	18q22.1	18q21.33
LU4_L	3	17	17	64,911,448	64,877,845	17q24.2	17q24.2
LU18_AD	6	12	5	64,934,060	27,212,730	12q14.2	5p14.1
LU16_L	4	12	12	64,988,132	54,112,106	12q14.2	12q13.13
LU7_L	7	12	7	65,092,105	4,756,431	12q14.2	7p22.1
LU7_AD	6	12	7	65,092,345	4,756,196	12q14.2	7p22.1
LU7_AD	3	12	12	65,100,761	55,572,973	12q14.3	12q13.2
LU7_L	12	12	12	65,101,314	55,571,170	12q14.3	12q13.2
LU3_L	6	2	3	65,111,009	894,344	2p14	3p26.3
LU14_AD	4	15	15	65,111,973	68,579,640	15q22.31	15q23
LU7_L	4	12	12	65,151,388	65,359,974	12q14.3	12q14.3
LU7_AD	6	12	12	65,151,942	65,358,796	12q14.3	12q14.3
LU18_L	5	12	7	65,161,844	147,453,538	12q14.3	7q35
LU7_AD	5	12	12	65,172,331	65,543,928	12q14.3	12q14.3
LU18_AD	5	12	4	65,181,915	66,667	12q14.3	4p16.3
LU18_AD	3	12	4	65,185,229	49,315,254	12q14.3	4p11
LU7_L	28	12	12	65,191,110	66,645,562	12q14.3	12q14.3
LU7_AD	11	12	12	65,192,090	66,644,688	12q14.3	12q14.3
LU7_AD	7	12	12	65,231,667	60,255,754	12q14.3	12q14.1
LU7_L	11	12	12	65,232,441	60,255,045	12q14.3	12q14.1
LU4_L	4	16	16	65,235,633	65,566,207	16q21	16q21
LU4_AD	11	16	16	65,274,020	60,344,786	16q21	16q21
LU4_L	6	16	16	65,274,087	60,345,876	16q21	16q21
LU18_AD	8	12	12	65,278,216	71,274,272	12q14.3	12q15
LU18_L	14	12	12	65,279,546	71,271,264	12q14.3	12q15
LU4_L	10	16	16	65,298,557	69,510,406	16q21	16q22.1
LU4_L	3	3	3	65,333,005	65,383,367	3p14.1	3p14.1
LU7_AD	6	12	12	65,358,796	65,151,942	12q14.3	12q14.3
LU7_L	4	12	12	65,359,974	65,151,388	12q14.3	12q14.3
LU4_L	3	3	3	65,383,367	65,333,005	3p14.1	3p14.1
LU4_AD	3	23	5	65,439,977	158,794,262	Xq12	5q33.3
LU7_L	7	12	12	65,454,342	61,213,228	12q14.3	12q14.1
LU18_AD	4	12	12	65,471,490	70,278,237	12q14.3	12q15
LU18_L	6	12	12	65,472,119	70,277,459	12q14.3	12q15
LU18_L	4	12	12	65,473,826	69,558,073	12q14.3	12q15
LU18_AD	4	12	12	65,475,116	69,557,942	12q14.3	12q15
LU12_L	8	8	8	65,475,274	69,055,922	8q12.3	8q13.2
LU7_L	6	12	12	65,537,075	56,331,989	12q14.3	12q13.2
LU7_AD	7	12	12	65,537,110	56,330,916	12q14.3	12q13.2
LU7_AD	5	12	12	65,543,928	65,172,331	12q14.3	12q14.3
LU16_AD	4	9	9	65,558,878	39,351,610	9q12	9p13.1
LU4_L	4	16	16	65,566,207	65,235,633	16q21	16q21

LU7_AD	5	12	7	65,651,718	37,217,449	12q14.3	7p14.1
LU7_L	4	12	7	65,653,321	37,219,541	12q14.3	7p14.1
LU3_L	3	6	6	65,660,275	65,690,739	6q12	6q12
LU7_L	3	12	19	65,661,516	15,250,316	12q14.3	19p13.12
LU7_L	6	12	12	65,668,265	66,311,506	12q14.3	12q14.3
LU7_AD	4	12	12	65,668,604	66,312,957	12q14.3	12q14.3
LU12_L	33	8	8	65,670,579	52,342,602	8q12.3	8q11.22
LU18_AD	61	12	12	65,678,337	69,308,099	12q14.3	12q15
LU18_L	67	12	12	65,678,731	69,308,197	12q14.3	12q15
LU3_L	3	6	6	65,690,739	65,660,275	6q12	6q12
LU21_L	3	6	1	65,715,524	89,390,945	6q12	1p22.2
LU15_L	5	6	12	65,718,904	59,245,306	6q12	12q14.1
LU7_L	5	12	12	65,752,210	65,808,952	12q14.3	12q14.3
LU18_AD	21	12	12	65,755,725	67,165,787	12q14.3	12q14.3
LU18_L	20	12	12	65,756,765	67,164,952	12q14.3	12q14.3
LU18_AD	24	12	5	65,768,507	1,134,039	12q14.3	5p15.33
LU18_L	25	12	5	65,768,650	1,134,838	12q14.3	5p15.33
LU12_L	12	8	8	65,781,082	36,250,754	8q12.3	8p12
LU8_L	5	1	1	65,792,280	65,825,958	1p31.3	1p31.3
LU7_L	5	12	12	65,808,952	65,752,210	12q14.3	12q14.3
LU7_L	29	12	12	65,823,757	67,247,959	12q14.3	12q14.3
LU7_AD	16	12	12	65,824,142	67,248,011	12q14.3	12q14.3
LU8_L	5	1	1	65,825,958	65,792,280	1p31.3	1p31.3
LU12_AD	6	7	7	65,843,722	51,459,273	7q11.21	7p12.1
LU20_L	4	7	1	65,845,125	222,651,200	7q11.21	1q41
LU3_L	3	7	7	65,851,543	55,821,775	7q11.21	7p11.2
LU18_AD	4	12	12	65,852,531	65,910,718	12q14.3	12q14.3
LU7_L	3	12	12	65,857,971	59,711,537	12q14.3	12q14.1
LU20_AD	3	9	9	65,869,783	40,218,976	9q12	9p13.1
LU3_L	4	6	6	65,876,164	65,906,350	6q12	6q12
LU16_L	3	9	7	65,885,039	42,120,362	9q12	7p14.1
LU12_L	8	8	8	65,889,530	1,422,744	8q12.3	8p23.3
LU3_L	4	6	6	65,906,350	65,876,164	6q12	6q12
LU18_AD	4	12	12	65,910,718	65,852,531	12q14.3	12q14.3
LU14_L	3	9	9	65,968,946	46,903,495	9q13	9p11.2
LU20_L	3	8	4	66,039,324	108,337,795	8q13.1	4q25
LU11_AD	4	8	23	66,043,918	148,957,987	8q13.1	Xq28
LU3_L	3	3	3	66,125,460	66,155,264	3p14.1	3p14.1
LU6_AD	12	11	11	66,131,639	113,175,506	11q13.2	11q23.2
LU6_L	8	11	11	66,133,937	113,175,638	11q13.2	11q23.2
LU3_L	3	3	3	66,155,264	66,125,460	3p14.1	3p14.1
LU6_L	39	11	11	66,177,930	122,360,077	11q13.2	11q24.1
LU11_AD	6	12	7	66,179,474	102,839,170	12q14.3	7q22.1
LU11_AD	36	12	12	66,179,539	63,977,781	12q14.3	12q14.2

LU11_L	4	12	12	66,179,901	63,980,250	12q14.3	12q14.2
LU11_AD	12	12	7	66,180,578	35,145,693	12q14.3	7p14.2
LU18_L	5	17	9	66,237,491	121,524,729	17q24.2	9q33.1
LU16_L	3	17	18	66,256,707	60,759,029	17q24.2	18q21.33
LU7_AD	7	12	7	66,299,816	34,372,186	12q14.3	7p14.3
LU7_L	10	12	7	66,300,361	34,370,860	12q14.3	7p14.3
LU7_L	6	12	12	66,311,506	65,668,265	12q14.3	12q14.3
LU7_AD	4	12	12	66,312,957	65,668,604	12q14.3	12q14.3
LU7_L	5	12	12	66,378,316	71,607,470	12q14.3	12q21.1
LU11_AD	14	12	18	66,424,547	27,075,148	12q14.3	18q12.1
LU4_AD	8	16	1	66,438,484	150,849,258	16q21	1q21.3
LU18_AD	4	12	5	66,440,788	2,735,709	12q14.3	5p15.33
LU18_AD	5	12	12	66,467,546	66,499,184	12q14.3	12q14.3
LU11_AD	10	12	12	66,469,967	67,086,578	12q14.3	12q14.3
LU18_AD	5	12	12	66,499,184	66,467,546	12q14.3	12q14.3
LU7_L	12	12	12	66,508,625	62,216,645	12q14.3	12q14.1
LU18_AD	5	12	12	66,516,376	70,587,162	12q14.3	12q15
LU18_L	9	12	2	66,517,045	222,809,365	12q14.3	2q36.1
LU18_L	3	12	12	66,534,112	66,566,354	12q14.3	12q14.3
LU18_L	3	12	12	66,566,354	66,534,112	12q14.3	12q14.3
LU6_L	11	11	1	66,574,476	103,365,317	11q13.2	1p21.1
LU7_AD	21	12	12	66,602,763	62,666,079	12q14.3	12q14.1
LU7_L	38	12	12	66,604,319	62,665,915	12q14.3	12q14.1
LU6_L	29	11	1	66,635,658	102,178,705	11q13.2	1p21.2
LU4_AD	12	5	5	66,642,016	53,176,676	5q12.3	5q11.2
LU7_AD	11	12	12	66,644,688	65,192,090	12q14.3	12q14.3
LU7_L	28	12	12	66,645,562	65,191,110	12q14.3	12q14.3
LU7_AD	16	12	12	66,652,298	61,328,781	12q14.3	12q14.1
LU7_L	38	12	12	66,652,821	61,329,111	12q14.3	12q14.1
LU7_L	43	12	12	66,655,901	62,551,146	12q14.3	12q14.1
LU7_AD	18	12	12	66,656,328	62,550,791	12q14.3	12q14.1
LU3_AD	3	9	9	66,686,512	69,824,797	9q13	9q21.11
LU4_AD	3	23	23	66,696,747	66,728,899	Xq12	Xq12
LU4_AD	3	23	23	66,728,899	66,696,747	Xq12	Xq12
LU18_AD	3	4	9	66,744,542	26,186,677	4q13.2	9p21.2
LU18_AD	4	12	5	66,772,978	661,420	12q14.3	5p15.33
LU18_L	4	12	5	66,773,619	661,114	12q14.3	5p15.33
LU3_L	3	14	14	66,778,296	66,814,487	14q23.3	14q23.3
LU3_L	3	8	23	66,778,997	68,919,653	8q13.1	Xq13.1
LU12_AD	3	14	14	66,780,878	66,814,365	14q23.3	14q23.3
LU12_AD	3	14	14	66,814,365	66,780,878	14q23.3	14q23.3
LU3_L	3	14	14	66,814,487	66,778,296	14q23.3	14q23.3
LU20_AD	3	1	16	66,886,447	21,644,939	1p31.3	16p12.2
LU4_AD	5	14	14	66,889,531	66,919,435	14q23.3	14q23.3

LU20_AD	4	1	17	66,889,866	52,362,353	1p31.3	17q22
LU20_AD	6	10	10	66,906,349	66,938,501	10q21.3	10q21.3
LU4_AD	5	14	14	66,919,435	66,889,531	14q23.3	14q23.3
LU7_L	12	12	12	66,924,035	68,686,323	12q14.3	12q15
LU7_AD	5	12	12	66,928,202	68,683,628	12q14.3	12q15
LU20_L	5	23	23	66,931,008	66,962,670	Xq12	Xq12
LU20_AD	6	10	10	66,938,501	66,906,349	10q21.3	10q21.3
LU7_L	25	12	12	66,948,267	61,561,066	12q14.3	12q14.1
LU20_L	5	23	23	66,962,670	66,931,008	Xq12	Xq12
LU18_AD	11	12	5	67,017,662	4,990,573	12q14.3	5p15.32
LU18_L	6	12	5	67,018,029	4,990,342	12q14.3	5p15.32
LU18_L	50	12	5	67,035,186	2,525,335	12q14.3	5p15.33
LU18_AD	48	12	5	67,035,327	2,525,895	12q14.3	5p15.33
LU18_AD	44	12	12	67,035,776	69,304,105	12q14.3	12q15
LU18_L	62	12	12	67,035,880	69,304,288	12q14.3	12q15
LU7_L	6	12	7	67,037,722	23,466,646	12q14.3	7p15.3
LU18_AD	56	12	12	67,044,207	70,240,852	12q14.3	12q15
LU18_L	47	12	12	67,044,237	70,241,679	12q14.3	12q15
LU7_AD	4	12	12	67,045,330	68,204,333	12q14.3	12q15
LU18_L	44	12	5	67,077,350	2,881,540	12q14.3	5p15.33
LU18_AD	56	12	5	67,079,638	2,879,340	12q14.3	5p15.33
LU14_AD	6	16	14	67,081,527	38,488,548	16q22.1	14q21.1
LU11_AD	10	12	12	67,086,578	66,469,967	12q14.3	12q14.3
LU18_AD	24	12	5	67,098,733	1,185,326	12q14.3	5p15.33
LU18_L	20	12	5	67,098,890	1,186,424	12q14.3	5p15.33
LU18_L	6	12	12	67,120,405	67,215,605	12q14.3	12q14.3
LU18_AD	60	12	12	67,120,541	67,215,193	12q14.3	12q14.3
LU18_L	39	12	12	67,121,049	67,216,706	12q14.3	12q14.3
LU18_AD	26	12	5	67,129,761	1,632,929	12q14.3	5p15.33
LU18_L	9	12	3	67,131,891	195,679,465	12q14.3	3q29
LU18_L	16	12	5	67,132,476	1,632,163	12q14.3	5p15.33
LU18_AD	6	12	3	67,132,543	195,679,263	12q14.3	3q29
LU4_AD	4	1	1	67,159,905	67,198,676	1p31.3	1p31.3
LU18_L	20	12	12	67,164,952	65,756,765	12q14.3	12q14.3
LU18_AD	21	12	12	67,165,787	65,755,725	12q14.3	12q14.3
LU4_AD	3	13	10	67,166,568	97,700,364	13q21.32	10q24.1
LU6_AD	7	11	1	67,176,874	22,539,155	11q13.2	1p36.12
LU12_L	3	6	7	67,190,135	81,832,786	6q12	7q21.11
LU16_AD	7	12	12	67,193,086	67,374,714	12q14.3	12q14.3
LU4_AD	3	6	6	67,197,889	67,239,135	6q12	6q12
LU4_AD	4	1	1	67,198,676	67,159,905	1p31.3	1p31.3
LU18_AD	60	12	12	67,215,193	67,120,541	12q14.3	12q14.3
LU18_L	6	12	12	67,215,605	67,120,405	12q14.3	12q14.3
LU18_L	39	12	12	67,216,706	67,121,049	12q14.3	12q14.3

LU7_L	3	12	7	67,223,688	23,733,895	12q14.3	7p15.3
LU4_AD	3	6	6	67,239,135	67,197,889	6q12	6q12
LU14_L	3	23	23	67,247,947	67,278,381	Xq12	Xq12
LU7_L	29	12	12	67,247,959	65,823,757	12q14.3	12q14.3
LU7_AD	16	12	12	67,248,011	65,824,142	12q14.3	12q14.3
LU11_AD	12	12	12	67,257,705	43,024,796	12q14.3	12q12
LU11_L	6	12	12	67,259,192	43,021,806	12q14.3	12q12
LU3_L	3	15	1	67,265,436	42,411,118	15q22.32	1p34.2
LU14_L	3	23	23	67,278,381	67,247,947	Xq12	Xq12
LU15_L	6	3	3	67,279,246	54,170,502	3p14.1	3p21.1
LU18_L	6	9	2	67,286,415	95,495,344	9q13	2q11.1
LU18_AD	4	9	9	67,286,639	43,106,644	9q13	9p12
LU6_L	7	9	9	67,287,091	43,106,861	9q13	9p12
LU6_L	4	9	2	67,287,661	95,495,439	9q13	2q11.1
LU18_L	8	9	9	67,287,757	43,105,142	9q13	9p12
LU8_L	9	9	9	67,287,758	43,105,858	9q13	9p12
LU8_L	3	9	2	67,288,194	95,494,920	9q13	2q11.1
LU5_AD	11	9	9	67,288,247	43,105,897	9q13	9p12
LU5_L	7	9	9	67,288,375	43,105,104	9q13	9p12
LU6_AD	3	9	9	67,288,917	43,105,159	9q13	9p12
LU5_L	3	9	1	67,288,985	143,223,284	9q13	1q21.1
LU7_L	6	12	21	67,293,668	35,385,655	12q14.3	21q22.11
LU16_AD	18	14	12	67,312,537	81,494,081	14q23.3	12q21.31
LU5_L	3	9	9	67,328,729	42,775,952	9q13	9p12
LU16_AD	15	14	14	67,333,094	67,428,952	14q23.3	14q23.3
LU12_L	4	9	16	67,350,394	32,658,355	9q13	16p11.2
LU16_AD	7	12	12	67,374,714	67,193,086	12q14.3	12q14.3
LU7_L	3	11	7	67,384,857	144,119,856	11q13.2	7q35
LU16_AD	12	14	12	67,399,030	64,239,308	14q23.3	12q14.2
LU4_L	3	6	6	67,414,372	67,444,426	6q12	6q12
LU18_AD	14	12	5	67,414,820	11,009,899	12q14.3	5p15.2
LU16_AD	15	14	14	67,428,952	67,333,094	14q23.3	14q23.3
LU7_L	11	12	12	67,435,575	68,674,134	12q14.3	12q15
LU7_AD	6	12	12	67,436,196	68,674,585	12q14.3	12q15
LU4_L	3	6	6	67,444,426	67,414,372	6q12	6q12
LU18_AD	3	12	12	67,452,754	67,618,541	12q14.3	12q14.3
LU18_AD	7	12	12	67,464,087	70,259,007	12q14.3	12q15
LU18_L	4	12	12	67,464,355	70,259,428	12q14.3	12q15
LU11_AD	14	12	12	67,478,791	111,284,239	12q14.3	12q24.11
LU11_L	10	12	12	67,479,148	111,286,019	12q14.3	12q24.11
LU18_L	4	12	12	67,486,972	71,790,052	12q14.3	12q21.1
LU18_AD	5	12	5	67,489,706	21,224,006	12q14.3	5p14.3
LU18_L	5	12	5	67,489,784	21,223,708	12q14.3	5p14.3
LU7_L	6	17	4	67,499,795	165,531,132	17q24.3	4q32.3

LU11_L	8	12	8	67,509,957	58,876,183	12q14.3	8q12.1
LU20_AD	4	2	2	67,557,910	67,589,343	2p14	2p14
LU18_AD	40	12	5	67,571,123	633,095	12q14.3	5p15.33
LU7_L	8	12	7	67,574,179	23,758,799	12q14.3	7p15.3
LU20_AD	4	2	2	67,589,343	67,557,910	2p14	2p14
LU7_AD	8	12	12	67,603,725	59,865,956	12q14.3	12q14.1
LU7_AD	3	11	4	67,608,174	9,647,158	11q13.2	4p16.1
LU3_AD	3	11	2	67,614,481	232,271,203	11q13.2	2q37.1
LU18_AD	3	12	12	67,618,541	67,452,754	12q14.3	12q14.3
LU4_L	3	15	15	67,627,164	67,662,181	15q23	15q23
LU18_L	15	12	12	67,655,328	58,090,821	12q14.3	12q13.3
LU18_AD	10	12	12	67,655,463	58,088,954	12q14.3	12q13.3
LU4_L	3	15	15	67,662,181	67,627,164	15q23	15q23
LU18_AD	70	12	5	67,715,757	1,132,839	12q15	5p15.33
LU18_L	79	12	5	67,716,629	1,132,896	12q15	5p15.33
LU18_L	31	12	12	67,723,954	71,215,357	12q15	12q15
LU18_AD	38	12	12	67,727,096	71,209,582	12q15	12q15
LU7_AD	3	9	9	67,741,933	46,163,463	9q13	9p11.2
LU14_AD	3	12	12	67,754,608	67,785,187	12q15	12q15
LU14_AD	3	12	12	67,785,187	67,754,608	12q15	12q15
LU4_L	5	9	4	67,790,063	190,679,350	9q13	4q35.2
LU18_AD	74	12	5	67,795,485	2,057,753	12q15	5p15.33
LU18_L	67	12	5	67,796,636	2,058,241	12q15	5p15.33
LU18_AD	20	12	5	67,803,224	891,047	12q15	5p15.33
LU18_L	15	12	5	67,803,303	891,237	12q15	5p15.33
LU18_L	6	12	5	67,824,430	689,580	12q15	5p15.33
LU18_AD	5	12	5	67,825,530	690,448	12q15	5p15.33
LU7_L	6	12	12	67,840,585	58,671,917	12q15	12q14.1
LU3_L	5	5	5	67,860,903	67,910,346	5q13.1	5q13.1
LU16_L	5	23	5	67,872,846	149,032,463	Xq13.1	5q32
LU3_L	5	5	5	67,910,346	67,860,903	5q13.1	5q13.1
LU20_L	3	9	24	67,926,726	13,324,091	9q13	Yq11.1
LU7_L	7	12	12	67,934,265	52,554,463	12q15	12q13.13
LU7_L	35	12	12	67,957,086	62,744,859	12q15	12q14.1
LU7_L	4	12	12	67,961,901	49,853,001	12q15	12q13.12
LU7_AD	23	12	12	67,966,155	62,740,699	12q15	12q14.1
LU5_L	4	13	19	67,971,960	20,700,340	13q21.32	19p12
LU11_AD	6	12	12	67,983,494	50,589,424	12q15	12q13.12
LU7_L	6	12	15	68,030,252	33,538,457	12q15	15q13.3
LU7_L	4	12	12	68,053,873	72,114,434	12q15	12q21.1
LU11_L	6	12	20	68,097,323	17,434,826	12q15	20p12.1
LU16_L	5	1	1	68,108,978	101,805,994	1p31.3	1p21.2
LU16_L	4	1	1	68,109,403	106,770,336	1p31.3	1p21.1
LU16_AD	9	1	1	68,109,519	106,770,739	1p31.3	1p21.1

LU16_AD	8	1	1	68,109,665	101,804,619	1p31.3	1p21.2
LU7_AD	13	12	12	68,128,679	53,154,930	12q15	12q13.13
LU16_L	4	6	1	68,129,570	106,773,768	6q12	1p21.1
LU7_L	22	12	12	68,131,502	53,152,732	12q15	12q13.13
LU11_L	7	12	4	68,132,925	73,433,765	12q15	4q13.3
LU4_AD	3	3	3	68,135,870	68,173,648	3p14.1	3p14.1
LU7_AD	7	12	12	68,137,906	50,289,075	12q15	12q13.12
LU7_L	19	12	12	68,138,540	50,288,851	12q15	12q13.12
LU18_L	4	4	4	68,149,639	69,128,251	4q13.2	4q13.2
LU21_AD	3	4	4	68,150,866	69,127,127	4q13.2	4q13.2
LU7_L	3	12	8	68,159,149	114,523,876	12q15	8q23.3
LU18_L	3	12	3	68,162,799	148,136,958	12q15	3q24
LU18_L	4	12	5	68,164,343	18,541,650	12q15	5p14.3
LU18_L	3	12	2	68,166,171	5,141,404	12q15	2p25.2
LU18_L	4	12	2	68,166,636	216,787,228	12q15	2q35
LU18_L	3	12	13	68,168,031	48,631,394	12q15	13q14.2
LU4_AD	3	3	3	68,173,648	68,135,870	3p14.1	3p14.1
LU7_AD	4	12	12	68,204,333	67,045,330	12q15	12q14.3
LU4_L	3	16	1	68,230,653	22,856,393	16q22.1	1p36.12
LU5_AD	8	6	6	68,234,461	73,846,208	6q12	6q13
LU5_L	3	6	6	68,236,475	73,846,679	6q12	6q13
LU7_AD	3	12	12	68,251,225	68,284,616	12q15	12q15
LU11_L	7	12	12	68,268,416	115,299,675	12q15	12q24.21
LU18_L	4	8	16	68,270,440	81,373,846	8q13.2	16q23.2
LU7_L	9	12	7	68,272,077	8,086,508	12q15	7p21.3
LU7_AD	6	12	7	68,273,056	8,085,885	12q15	7p21.3
LU7_AD	8	12	7	68,275,994	2,585,586	12q15	7p22.3
LU7_L	14	12	7	68,276,387	2,585,968	12q15	7p22.3
LU11_L	20	12	12	68,279,001	69,187,674	12q15	12q15
LU7_AD	3	12	12	68,284,616	68,251,225	12q15	12q15
LU6_L	68	11	11	68,318,699	125,969,979	11q13.2	11q24.2
LU11_L	14	12	12	68,369,882	49,675,875	12q15	12q13.12
LU11_L	29	12	12	68,370,125	48,523,556	12q15	12q13.11
LU11_AD	53	12	12	68,370,243	48,520,189	12q15	12q13.11
LU11_AD	21	12	12	68,370,816	49,676,016	12q15	12q13.12
LU11_AD	3	11	6	68,395,816	40,833,255	11q13.2	6p21.1
LU18_AD	17	12	5	68,442,186	615,924	12q15	5p15.33
LU18_L	26	12	5	68,443,146	616,074	12q15	5p15.33
LU7_AD	5	12	15	68,449,114	37,181,377	12q15	15q14
LU7_L	8	12	12	68,456,708	61,971,508	12q15	12q14.1
LU18_L	3	13	3	68,479,596	125,428,159	13q21.32	3q21.2
LU18_L	3	13	8	68,480,528	11,782,530	13q21.32	8p23.1
LU20_AD	4	13	12	68,488,771	52,502,265	13q21.32	12q13.13
LU3_L	4	18	18	68,527,292	68,562,625	18q22.2	18q22.2

LU7_L	35	12	12	68,550,976	59,648,892	12q15	12q14.1
LU7_AD	12	12	12	68,551,187	59,650,305	12q15	12q14.1
LU3_L	4	18	18	68,562,625	68,527,292	18q22.2	18q22.2
LU18_AD	3	12	12	68,564,619	71,801,580	12q15	12q21.1
LU18_AD	5	12	15	68,565,447	21,905,148	12q15	15q11.2
LU18_L	6	12	12	68,568,820	69,646,059	12q15	12q15
LU18_AD	8	12	12	68,571,305	69,644,624	12q15	12q15
LU21_AD	3	4	4	68,576,369	68,606,512	4q13.2	4q13.2
LU14_AD	4	15	15	68,579,640	65,111,973	15q23	15q22.31
LU14_L	6	15	5	68,580,056	2,482,154	15q23	5p15.33
LU14_AD	11	15	5	68,580,449	2,481,699	15q23	5p15.33
LU7_L	5	12	7	68,586,903	26,470,502	12q15	7p15.2
LU3_AD	3	12	12	68,587,829	40,333,825	12q15	12q12
LU4_L	3	14	14	68,588,807	68,622,391	14q24.1	14q24.1
LU21_AD	3	4	4	68,606,512	68,576,369	4q13.2	4q13.2
LU18_AD	7	12	12	68,608,984	68,857,366	12q15	12q15
LU18_L	5	12	12	68,610,266	68,857,583	12q15	12q15
LU4_L	3	14	14	68,622,391	68,588,807	14q24.1	14q24.1
LU7_L	7	12	10	68,647,011	33,017,277	12q15	10p11.22
LU7_AD	4	12	10	68,647,257	33,015,910	12q15	10p11.22
LU7_AD	6	12	12	68,648,664	54,090,292	12q15	12q13.13
LU16_AD	3	9	9	68,672,447	45,634,869	9q13	9p11.2
LU7_L	11	12	12	68,674,134	67,435,575	12q15	12q14.3
LU18_L	8	12	12	68,674,338	64,332,182	12q15	12q14.2
LU18_AD	8	12	12	68,674,388	64,332,930	12q15	12q14.2
LU7_AD	6	12	12	68,674,585	67,436,196	12q15	12q14.3
LU7_AD	5	12	12	68,683,628	66,928,202	12q15	12q14.3
LU7_L	12	12	12	68,686,323	66,924,035	12q15	12q14.3
LU14_AD	4	8	6	68,784,909	159,682,906	8q13.2	6q25.3
LU14_L	3	14	14	68,805,539	68,838,847	14q24.1	14q24.1
LU16_AD	7	9	7	68,810,722	34,385,475	9q21.11	7p14.3
LU7_AD	4	12	7	68,814,932	21,835,395	12q15	7p15.3
LU7_L	5	12	7	68,815,337	21,836,076	12q15	7p15.3
LU7_AD	7	12	12	68,824,157	68,985,196	12q15	12q15
LU7_L	7	12	12	68,824,603	68,984,562	12q15	12q15
LU7_L	17	12	12	68,832,801	61,207,721	12q15	12q14.1
LU7_AD	11	12	12	68,832,863	61,207,682	12q15	12q14.1
LU11_AD	10	12	12	68,833,957	56,654,654	12q15	12q13.3
LU18_L	15	12	5	68,834,858	566,401	12q15	5p15.33
LU18_AD	13	12	5	68,834,970	566,584	12q15	5p15.33
LU11_L	9	12	12	68,838,130	48,709,850	12q15	12q13.11
LU11_AD	12	12	18	68,838,292	35,823,309	12q15	18q12.2
LU14_L	3	14	14	68,838,847	68,805,539	14q24.1	14q24.1
LU11_L	6	12	18	68,839,118	35,821,721	12q15	18q12.2

LU11_AD	4	12	12	68,839,632	48,709,983	12q15	12q13.11
LU18_AD	7	12	12	68,857,366	68,608,984	12q15	12q15
LU18_L	5	12	12	68,857,583	68,610,266	12q15	12q15
LU18_L	8	12	25	68,862,290	635,563	12q15	25
LU18_L	3	12	1	68,862,921	143,279,005	12q15	1q21.1
LU3_L	3	23	8	68,919,653	66,778,997	Xq13.1	8q13.1
LU20_AD	3	5	20	68,927,919	23,969,090	5q13.2	20p11.21
LU18_AD	4	12	1	68,933,000	248,067,887	12q15	1q44
LU18_AD	4	12	1	68,933,202	227,870,054	12q15	1q42.13
LU7_L	4	12	1	68,934,022	248,061,847	12q15	1q44
LU18_AD	3	12	23	68,934,875	48,712,580	12q15	Xp11.23
LU18_AD	5	12	4	68,934,882	104,145,598	12q15	4q24
LU18_L	7	12	12	68,937,811	21,093,460	12q15	12p12.2
LU18_L	3	12	1	68,938,175	206,286,638	12q15	1q32.1
LU18_L	15	12	11	68,938,258	59,871,820	12q15	11q12.1
LU3_L	5	12	23	68,938,832	115,035,656	12q15	Xq23
LU18_AD	13	12	11	68,939,437	59,870,902	12q15	11q12.1
LU18_AD	8	12	12	68,939,485	21,091,886	12q15	12p12.2
LU18_L	16	12	3	68,939,895	161,763,613	12q15	3q26.1
LU18_AD	5	12	23	68,940,021	115,033,933	12q15	Xq23
LU12_L	6	12	23	68,941,175	115,033,923	12q15	Xq23
LU7_AD	3	12	3	68,944,686	87,783,462	12q15	3p11.2
LU18_L	4	12	3	68,946,972	39,452,316	12q15	3p22.1
LU8_L	4	6	15	68,970,109	61,413,603	6q12	15q22.2
LU7_L	12	12	12	68,982,333	61,796,587	12q15	12q14.1
LU7_L	7	12	12	68,984,562	68,824,603	12q15	12q15
LU7_AD	7	12	12	68,985,196	68,824,157	12q15	12q15
LU8_L	4	6	15	68,992,805	61,441,840	6q12	15q22.2
LU11_AD	3	5	5	69,047,291	69,923,060	5q13.2	5q13.2
LU4_L	4	5	5	69,048,560	69,924,106	5q13.2	5q13.2
LU18_L	3	12	6	69,050,387	117,753,060	12q15	6q22.1
LU12_L	8	8	8	69,055,922	65,475,274	8q13.2	8q12.3
LU7_AD	20	12	12	69,070,485	62,238,173	12q15	12q14.1
LU7_L	36	12	12	69,070,535	62,238,172	12q15	12q14.1
LU7_L	6	12	12	69,079,054	61,677,639	12q15	12q14.1
LU6_L	9	12	14	69,079,182	50,557,306	12q15	14q21.3
LU18_L	104	12	5	69,080,467	2,922,988	12q15	5p15.33
LU18_AD	92	12	5	69,080,472	2,923,426	12q15	5p15.33
LU4_AD	3	5	5	69,084,149	69,456,380	5q13.2	5q13.2
LU18_L	4	12	7	69,089,192	146,789,281	12q15	7q35
LU18_AD	5	12	7	69,089,240	146,789,613	12q15	7q35
LU4_AD	3	10	10	69,122,685	69,165,566	10q21.3	10q21.3
LU21_AD	3	4	4	69,127,127	68,150,866	4q13.2	4q13.2
LU18_L	4	4	4	69,128,251	68,149,639	4q13.2	4q13.2

LU3_L	4	7	7	69,136,326	69,169,620	7q11.22	7q11.22
LU16_AD	6	9	7	69,146,868	34,386,000	9q21.11	7p14.3
LU4_AD	3	10	10	69,165,566	69,122,685	10q21.3	10q21.3
LU3_L	4	7	7	69,169,620	69,136,326	7q11.22	7q11.22
LU18_L	5	12	5	69,175,757	1,447,881	12q15	5p15.33
LU11_L	11	12	12	69,187,038	59,207,505	12q15	12q14.1
LU11_L	20	12	12	69,187,674	68,279,001	12q15	12q15
LU20_AD	3	9	5	69,188,715	135,110,612	9q21.11	5q31.1
LU20_AD	3	9	19	69,191,285	41,971,186	9q21.11	19q13.2
LU18_AD	12	12	12	69,216,418	69,247,584	12q15	12q15
LU5_AD	3	14	14	69,237,867	69,282,529	14q24.1	14q24.1
LU18_AD	12	12	12	69,247,584	69,216,418	12q15	12q15
LU18_L	3	12	12	69,265,297	69,680,308	12q15	12q15
LU11_L	4	12	12	69,278,255	48,818,163	12q15	12q13.11
LU5_AD	3	14	14	69,282,529	69,237,867	14q24.1	14q24.1
LU18_AD	44	12	12	69,304,105	67,035,776	12q15	12q14.3
LU18_L	62	12	12	69,304,288	67,035,880	12q15	12q14.3
LU18_AD	26	12	5	69,306,554	2,520,786	12q15	5p15.33
LU18_L	44	12	5	69,307,567	2,524,107	12q15	5p15.33
LU18_AD	61	12	12	69,308,099	65,678,337	12q15	12q14.3
LU18_L	67	12	12	69,308,197	65,678,731	12q15	12q14.3
LU18_AD	32	12	5	69,311,333	2,603,682	12q15	5p15.33
LU18_L	34	12	5	69,312,446	2,603,674	12q15	5p15.33
LU18_L	11	12	5	69,332,949	1,121,349	12q15	5p15.33
LU18_AD	7	12	12	69,333,941	70,235,258	12q15	12q15
LU18_L	5	12	12	69,336,595	70,235,660	12q15	12q15
LU18_L	4	12	7	69,378,422	125,097,073	12q15	7q31.33
LU7_L	4	12	7	69,378,928	25,815,440	12q15	7p15.2
LU4_AD	4	5	5	69,387,308	70,363,838	5q13.2	5q13.2
LU4_AD	7	16	16	69,405,008	48,685,620	16q22.1	16q12.1
LU4_L	4	16	16	69,405,863	48,683,029	16q22.1	16q12.1
LU11_AD	6	12	12	69,427,220	63,874,145	12q15	12q14.2
LU11_L	5	12	12	69,428,257	63,874,075	12q15	12q14.2
LU8_L	4	4	4	69,439,668	69,921,730	4q13.2	4q13.2
LU21_AD	3	10	20	69,446,550	23,791,291	10q21.3	20p11.21
LU4_AD	3	5	5	69,456,380	69,084,149	5q13.2	5q13.2
LU4_L	5	16	16	69,458,531	48,681,325	16q22.1	16q12.1
LU4_AD	12	16	16	69,460,661	48,679,178	16q22.1	16q12.1
LU11_L	19	12	12	69,477,169	61,950,290	12q15	12q14.1
LU11_AD	24	12	12	69,477,514	61,949,808	12q15	12q14.1
LU18_AD	44	12	5	69,481,147	1,149,936	12q15	5p15.33
LU18_L	46	12	5	69,483,640	1,149,256	12q15	5p15.33
LU7_L	3	12	12	69,486,676	64,467,026	12q15	12q14.2
LU7_AD	4	12	10	69,489,333	33,071,432	12q15	10p11.22

LU18_AD	3	12	5	69,490,926	649,322	12q15	5p15.33
LU18_L	6	12	5	69,491,295	648,405	12q15	5p15.33
LU18_AD	4	12	12	69,496,637	70,717,852	12q15	12q15
LU18_L	9	12	12	69,496,731	70,717,573	12q15	12q15
LU18_AD	3	12	5	69,501,341	612,987	12q15	5p15.33
LU4_L	10	16	16	69,510,406	65,298,557	16q22.1	16q21
LU18_AD	23	12	5	69,513,985	536,886	12q15	5p15.33
LU18_L	22	12	5	69,514,020	537,600	12q15	5p15.33
LU7_AD	4	12	7	69,516,627	35,651,175	12q15	7p14.2
LU18_L	11	12	12	69,531,500	70,131,854	12q15	12q15
LU18_AD	9	12	12	69,532,460	63,838,247	12q15	12q14.2
LU18_L	12	12	5	69,532,842	546,743	12q15	5p15.33
LU18_AD	4	12	12	69,557,942	65,475,116	12q15	12q14.3
LU18_L	4	12	12	69,558,073	65,473,826	12q15	12q14.3
LU7_L	3	12	12	69,587,323	51,215,124	12q15	12q13.12
LU18_L	5	12	11	69,591,135	19,003,784	12q15	11p15.1
LU18_L	3	12	15	69,596,779	62,503,884	12q15	15q22.2
LU11_AD	21	12	12	69,637,825	63,941,052	12q15	12q14.2
LU11_L	11	12	12	69,641,045	63,938,054	12q15	12q14.2
LU18_AD	8	12	12	69,644,624	68,571,305	12q15	12q15
LU18_L	6	12	12	69,646,059	68,568,820	12q15	12q15
LU11_AD	65	12	12	69,650,106	83,819,457	12q15	12q21.31
LU18_AD	6	12	12	69,675,482	69,889,104	12q15	12q15
LU18_L	3	12	12	69,680,308	69,265,297	12q15	12q15
LU18_AD	4	12	12	69,714,648	69,758,190	12q15	12q15
LU18_L	5	12	12	69,719,385	69,804,885	12q15	12q15
LU18_AD	11	12	12	69,728,219	70,124,578	12q15	12q15
LU18_L	8	12	12	69,728,483	70,124,204	12q15	12q15
LU4_L	19	16	1	69,736,454	2,036,448	16q22.1	1p36.33
LU4_AD	27	16	1	69,737,043	2,035,656	16q22.1	1p36.33
LU20_AD	5	17	17	69,738,452	69,775,139	17q24.3	17q24.3
LU11_L	5	12	12	69,743,342	83,853,840	12q15	12q21.31
LU11_AD	58	12	12	69,743,786	83,847,644	12q15	12q21.31
LU11_L	4	7	12	69,746,843	107,093,360	7q11.22	12q23.3
LU18_AD	4	12	12	69,758,190	69,714,648	12q15	12q15
LU20_AD	5	17	17	69,775,139	69,738,452	17q24.3	17q24.3
LU18_AD	3	12	5	69,787,639	1,078,794	12q15	5p15.33
LU18_L	5	12	12	69,804,885	69,719,385	12q15	12q15
LU3_AD	3	9	9	69,824,797	66,686,512	9q21.11	9q13
LU18_AD	6	12	12	69,889,104	69,675,482	12q15	12q15
LU18_AD	17	12	5	69,892,598	2,814,435	12q15	5p15.33
LU18_L	14	12	5	69,892,725	2,813,708	12q15	5p15.33
LU8_L	4	4	4	69,921,730	69,439,668	4q13.2	4q13.2
LU11_AD	3	5	5	69,923,060	69,047,291	5q13.2	5q13.2

LU4_L	4	5	5	69,924,106	69,048,560	5q13.2	5q13.2
LU12_L	13	8	8	69,939,892	72,989,303	8q13.2	8q13.3
LU4_L	4	5	5	69,973,373	21,296,491	5q13.2	5p14.3
LU21_AD	3	8	8	69,979,473	70,012,907	8q13.2	8q13.2
LU18_L	23	12	5	69,984,073	768,539	12q15	5p15.33
LU18_L	14	12	5	69,984,753	877,479	12q15	5p15.33
LU18_AD	15	12	5	69,985,077	767,603	12q15	5p15.33
LU18_AD	15	12	5	69,985,429	877,387	12q15	5p15.33
LU21_AD	3	8	8	70,012,907	69,979,473	8q13.2	8q13.2
LU20_L	3	16	16	70,044,595	15,002,783	16q22.1	16p13.11
LU8_L	3	16	16	70,045,083	15,007,620	16q22.1	16p13.11
LU7_L	4	12	12	70,058,686	56,548,627	12q15	12q13.2
LU7_AD	5	12	12	70,058,727	56,549,047	12q15	12q13.2
LU7_AD	10	12	12	70,071,292	56,324,357	12q15	12q13.2
LU7_L	6	12	12	70,071,547	56,326,569	12q15	12q13.2
LU7_L	3	12	12	70,090,683	54,476,534	12q15	12q13.13
LU18_AD	74	12	5	70,111,687	1,156,048	12q15	5p15.33
LU18_L	54	12	5	70,111,975	1,156,123	12q15	5p15.33
LU18_AD	11	12	12	70,116,062	70,262,610	12q15	12q15
LU18_L	3	12	12	70,117,550	70,259,394	12q15	12q15
LU18_L	11	12	12	70,117,779	70,260,655	12q15	12q15
LU18_AD	9	12	12	70,124,170	70,277,517	12q15	12q15
LU18_L	8	12	12	70,124,204	69,728,483	12q15	12q15
LU18_AD	11	12	12	70,124,578	69,728,219	12q15	12q15
LU18_L	4	12	12	70,124,766	70,277,657	12q15	12q15
LU18_L	11	12	12	70,131,854	69,531,500	12q15	12q15
LU3_L	3	12	12	70,152,307	70,183,915	12q15	12q15
LU18_AD	11	12	12	70,178,784	70,499,584	12q15	12q15
LU3_L	3	12	12	70,183,915	70,152,307	12q15	12q15
LU18_AD	7	12	12	70,235,258	69,333,941	12q15	12q15
LU18_L	5	12	12	70,235,660	69,336,595	12q15	12q15
LU18_AD	56	12	12	70,240,852	67,044,207	12q15	12q14.3
LU18_L	47	12	12	70,241,679	67,044,237	12q15	12q14.3
LU18_L	3	12	5	70,255,023	1,444,537	12q15	5p15.33
LU18_AD	7	12	12	70,259,007	67,464,087	12q15	12q14.3
LU18_L	3	12	12	70,259,394	70,117,550	12q15	12q15
LU18_L	4	12	12	70,259,428	67,464,355	12q15	12q14.3
LU18_L	11	12	12	70,260,655	70,117,779	12q15	12q15
LU18_AD	11	12	12	70,262,610	70,116,062	12q15	12q15
LU18_L	6	12	12	70,277,459	65,472,119	12q15	12q14.3
LU18_AD	9	12	12	70,277,517	70,124,170	12q15	12q15
LU18_L	4	12	12	70,277,657	70,124,766	12q15	12q15
LU18_L	150	12	12	70,277,781	71,812,228	12q15	12q21.1
LU18_AD	4	12	12	70,278,237	65,471,490	12q15	12q14.3

LU18_AD	172	12	12	70,279,374	71,822,726	12q15	12q21.1
LU15_L	3	14	3	70,280,671	46,092,853	14q24.2	3p21.31
LU3_AD	3	12	12	70,310,300	38,823,825	12q15	12q12
LU18_AD	3	12	5	70,363,125	14,770,255	12q15	5p15.2
LU18_L	5	12	5	70,363,345	14,769,991	12q15	5p15.2
LU4_AD	4	5	5	70,363,838	69,387,308	5q13.2	5q13.2
LU4_L	3	6	6	70,366,413	70,407,511	6q13	6q13
LU18_L	19	12	5	70,367,310	16,155,324	12q15	5p15.1
LU18_AD	20	12	5	70,367,670	16,155,208	12q15	5p15.1
LU18_AD	23	12	11	70,369,492	16,815,364	12q15	11p15.1
LU18_L	20	12	11	70,369,535	16,814,006	12q15	11p15.1
LU4_L	3	6	6	70,407,511	70,366,413	6q13	6q13
LU4_L	3	9	9	70,462,393	157,521	9q21.11	9p24.3
LU18_L	3	12	1	70,483,717	55,363,648	12q15	1p32.3
LU18_AD	20	12	12	70,494,154	70,524,839	12q15	12q15
LU18_AD	11	12	12	70,499,584	70,178,784	12q15	12q15
LU18_AD	20	12	12	70,524,839	70,494,154	12q15	12q15
LU18_L	4	12	11	70,533,010	13,494,896	12q15	11p15.2
LU18_AD	5	12	12	70,587,162	66,516,376	12q15	12q14.3
LU4_L	3	15	15	70,594,630	70,634,974	15q23	15q23
LU12_L	5	6	4	70,602,824	84,912,607	6q13	4q21.23
LU4_L	3	15	15	70,634,974	70,594,630	15q23	15q23
LU18_AD	6	12	12	70,645,236	73,384,883	12q15	12q21.1
LU18_L	7	12	12	70,645,706	73,385,694	12q15	12q21.1
LU15_L	3	9	2	70,659,746	132,556,893	9q21.11	2q21.2
LU18_L	45	12	5	70,665,897	2,852,446	12q15	5p15.33
LU18_AD	40	12	5	70,665,956	2,852,013	12q15	5p15.33
LU3_L	3	23	2	70,716,005	98,439,287	Xq13.1	2q11.2
LU18_L	9	12	12	70,717,573	69,496,731	12q15	12q15
LU18_AD	4	12	12	70,717,852	69,496,637	12q15	12q15
LU18_AD	6	12	5	70,727,402	674,277	12q15	5p15.33
LU18_AD	9	12	11	70,761,545	16,846,954	12q15	11p15.1
LU18_L	4	12	11	70,762,591	16,848,079	12q15	11p15.1
LU3_AD	3	12	1	70,838,624	160,694,887	12q15	1q23.3
LU18_AD	3	2	6	70,845,917	19,540,207	2p13.3	6p22.3
LU15_AD	3	9	9	70,859,424	42,664,294	9q21.11	9p12
LU12_L	12	8	8	70,862,778	60,541,636	8q13.3	8q12.1
LU18_AD	3	9	9	70,875,200	42,679,048	9q21.11	9p12
LU14_L	4	12	1	70,913,188	181,407,746	12q15	1q25.3
LU18_AD	11	12	5	70,972,560	914,913	12q15	5p15.33
LU18_L	16	12	5	70,972,572	915,040	12q15	5p15.33
LU18_L	7	12	5	70,975,421	1,073,578	12q15	5p15.33
LU18_AD	5	12	5	70,976,755	1,074,215	12q15	5p15.33
LU18_AD	11	12	12	70,986,558	71,022,294	12q15	12q15

LU18_AD	11	12	12	71,022,294	70,986,558	12q15	12q15
LU18_AD	10	12	5	71,057,053	1,156,958	12q15	5p15.33
LU18_L	19	12	5	71,060,341	1,153,164	12q15	5p15.33
LU12_L	14	8	8	71,074,354	137,331,701	8q13.3	8q24.23
LU12_L	11	8	8	71,078,638	24,641,771	8q13.3	8p21.2
LU7_L	14	12	12	71,086,119	49,110,651	12q15	12q13.12
LU7_AD	5	12	12	71,086,752	49,112,489	12q15	12q13.12
LU21_AD	4	8	8	71,147,271	71,183,968	8q13.3	8q13.3
LU18_AD	14	12	12	71,161,018	63,606,552	12q15	12q14.2
LU21_AD	4	8	8	71,183,968	71,147,271	8q13.3	8q13.3
LU18_AD	3	12	5	71,187,371	797,879	12q15	5p15.33
LU20_AD	3	5	5	71,187,539	73,158,427	5q13.2	5q13.2
LU18_L	22	12	5	71,187,983	711,988	12q15	5p15.33
LU18_AD	20	12	5	71,190,350	708,756	12q15	5p15.33
LU18_L	45	12	5	71,195,834	600,771	12q15	5p15.33
LU18_AD	37	12	5	71,196,018	600,125	12q15	5p15.33
LU18_AD	38	12	12	71,209,582	67,727,096	12q15	12q15
LU18_L	31	12	12	71,215,357	67,723,954	12q15	12q15
LU18_L	74	12	5	71,220,646	698,536	12q15	5p15.33
LU18_AD	74	12	5	71,220,679	698,259	12q15	5p15.33
LU18_AD	8	12	5	71,220,800	789,969	12q15	5p15.33
LU18_AD	7	8	5	71,238,718	178,680,690	8q13.3	5q35.3
LU8_L	3	2	4	71,238,738	9,752,045	2p13.3	4p16.1
LU18_AD	68	8	5	71,241,281	178,672,002	8q13.3	5q35.3
LU18_L	3	12	5	71,244,110	660,998	12q15	5p15.33
LU18_AD	8	12	5	71,244,421	660,515	12q15	5p15.33
LU18_AD	4	2	25	71,244,587	1,974,557	2p13.3	25
LU18_L	5	12	5	71,244,773	28,344,146	12q15	5p14.1
LU18_L	83	8	5	71,245,750	178,666,006	8q13.3	5q35.3
LU18_AD	3	12	5	71,265,516	1,768,300	12q15	5p15.33
LU18_L	14	12	12	71,271,264	65,279,546	12q15	12q14.3
LU18_AD	5	12	5	71,274,178	1,035,190	12q15	5p15.33
LU18_AD	8	12	12	71,274,272	65,278,216	12q15	12q14.3
LU18_L	10	12	5	71,274,490	1,034,578	12q15	5p15.33
LU18_AD	5	12	5	71,295,902	4,783,868	12q15	5p15.32
LU7_L	4	11	9	71,326,499	93,517,174	11q13.4	9q22.2
LU18_L	8	12	3	71,332,798	161,232,960	12q15	3q26.1
LU18_AD	4	12	7	71,337,436	37,828,557	12q15	7p14.1
LU7_AD	3	12	15	71,404,475	34,499,974	12q15	15q14
LU7_L	16	12	8	71,439,627	97,264,222	12q15	8q22.1
LU12_L	3	15	15	71,441,957	71,474,839	15q23	15q23
LU20_AD	4	2	15	71,443,018	62,567,131	2p13.3	15q22.2
LU18_L	4	2	15	71,447,017	62,567,291	2p13.3	15q22.2
LU3_L	3	12	12	71,447,356	71,481,697	12q15	12q15

LU12_L	3	2	7	71,448,193	30,571,434	2p13.3	7p14.3
LU18_L	3	15	1	71,453,905	171,238,601	15q23	1q24.3
LU18_AD	32	12	5	71,474,763	1,272,945	12q15	5p15.33
LU12_L	3	15	15	71,474,839	71,441,957	15q23	15q23
LU18_L	22	12	5	71,477,717	1,272,543	12q15	5p15.33
LU3_L	3	12	12	71,481,697	71,447,356	12q15	12q15
LU5_L	3	10	10	71,563,588	71,598,409	10q22.1	10q22.1
LU5_L	3	10	10	71,598,409	71,563,588	10q22.1	10q22.1
LU7_L	5	12	12	71,607,470	66,378,316	12q21.1	12q14.3
LU21_AD	3	15	1	71,633,725	77,594,654	15q23	1p31.1
LU7_L	8	12	7	71,643,856	25,498,258	12q21.1	7p15.3
LU7_AD	3	12	7	71,643,890	25,498,393	12q21.1	7p15.3
LU6_L	5	12	1	71,653,420	101,929,795	12q21.1	1p21.2
LU7_AD	15	12	7	71,774,181	24,697,221	12q21.1	7p15.3
LU7_L	29	12	7	71,774,435	24,696,907	12q21.1	7p15.3
LU18_L	4	12	12	71,790,052	67,486,972	12q21.1	12q14.3
LU18_L	13	12	15	71,800,637	21,905,675	12q21.1	15q11.2
LU18_AD	3	12	12	71,801,580	68,564,619	12q21.1	12q15
LU18_AD	14	12	15	71,801,594	21,905,286	12q21.1	15q11.2
LU18_L	150	12	12	71,812,228	70,277,781	12q21.1	12q15
LU18_L	19	12	7	71,818,470	16,894,626	12q21.1	7p21.1
LU18_AD	17	12	7	71,818,734	16,895,238	12q21.1	7p21.1
LU20_L	3	1	1	71,820,730	71,850,496	1p31.1	1p31.1
LU18_L	6	12	5	71,821,903	27,239,204	12q21.1	5p14.1
LU18_AD	172	12	12	71,822,726	70,279,374	12q21.1	12q15
LU18_AD	12	12	5	71,823,149	27,239,691	12q21.1	5p14.1
LU20_L	3	1	1	71,850,496	71,820,730	1p31.1	1p31.1
LU3_L	3	10	4	71,911,758	121,263,909	10q22.1	4q27
LU15_AD	7	9	9	71,935,671	103,545,276	9q21.11	9q31.1
LU4_AD	3	6	6	71,957,048	71,995,212	6q13	6q13
LU16_L	3	18	3	71,965,966	86,586,262	18q22.3	3p12.1
LU3_AD	3	1	23	71,974,309	99,824,438	1p31.1	Xq22.1
LU4_AD	3	6	6	71,995,212	71,957,048	6q13	6q13
LU3_AD	3	12	12	72,012,416	74,678,084	12q21.1	12q21.1
LU7_L	22	12	12	72,053,851	61,334,496	12q21.1	12q14.1
LU7_AD	8	12	12	72,054,181	61,332,863	12q21.1	12q14.1
LU7_L	49	12	12	72,058,445	63,475,829	12q21.1	12q14.2
LU7_AD	16	12	12	72,058,482	63,475,164	12q21.1	12q14.2
LU7_AD	13	12	12	72,084,904	72,861,502	12q21.1	12q21.1
LU7_L	34	12	12	72,084,992	72,862,322	12q21.1	12q21.1
LU3_L	6	2	2	72,107,141	72,137,418	2p13.2	2p13.2
LU7_L	4	12	12	72,114,434	68,053,873	12q21.1	12q15
LU7_L	9	5	5	72,135,956	100,596,822	5q13.2	5q21.1
LU3_L	6	2	2	72,137,418	72,107,141	2p13.2	2p13.2

LU7_AD	5	5	5	72,138,954	100,593,395	5q13.2	5q21.1
LU5_L	3	5	11	72,223,141	110,271,391	5q13.2	11q22.3
LU11_AD	3	5	7	72,227,876	54,024,247	5q13.2	7p11.2
LU3_L	5	8	8	72,238,362	72,268,281	8q13.3	8q13.3
LU18_L	16	12	5	72,259,066	6,939,995	12q21.1	5p15.31
LU18_AD	13	12	5	72,260,051	6,936,700	12q21.1	5p15.31
LU3_L	5	8	8	72,268,281	72,238,362	8q13.3	8q13.3
LU8_L	5	18	18	72,279,884	72,335,345	18q22.3	18q22.3
LU18_L	3	5	6	72,316,433	160,514,663	5q13.2	6q25.3
LU8_L	5	18	18	72,335,345	72,279,884	18q22.3	18q22.3
LU18_L	5	12	11	72,378,376	22,690,709	12q21.1	11p14.3
LU3_AD	5	12	12	72,421,885	18,583,646	12q21.1	12p12.3
LU4_L	3	6	2	72,497,126	148,070,707	6q13	2q22.3
LU12_L	4	6	13	72,498,992	111,843,771	6q13	13q34
LU6_L	4	15	6	72,499,003	5,973,660	15q23	6p25.1
LU20_AD	3	4	6	72,506,385	47,612,151	4q13.3	6p12.3
LU12_AD	6	15	11	72,507,445	82,278,763	15q23	11q14.1
LU4_AD	3	23	16	72,536,844	34,305,378	Xq13.2	16p11.2
LU3_L	3	13	3	72,594,774	156,335,587	13q21.33	3q25.31
LU18_L	20	12	7	72,599,414	35,171,136	12q21.1	7p14.2
LU18_AD	15	12	7	72,600,535	35,170,368	12q21.1	7p14.2
LU5_AD	3	12	12	72,605,009	72,636,541	12q21.1	12q21.1
LU18_AD	32	6	1	72,623,274	18,906,460	6q13	1p36.13
LU18_L	55	6	1	72,624,998	18,904,760	6q13	1p36.13
LU5_AD	3	12	12	72,636,541	72,605,009	12q21.1	12q21.1
LU3_AD	5	15	15	72,765,145	73,864,689	15q24.1	15q24.1
LU6_L	4	16	16	72,790,922	73,101,839	16q22.2	16q22.3
LU21_L	3	8	8	72,797,495	72,827,136	8q13.3	8q13.3
LU4_L	4	15	15	72,804,037	72,839,151	15q24.1	15q24.1
LU21_L	3	8	8	72,827,136	72,797,495	8q13.3	8q13.3
LU4_L	4	15	15	72,839,151	72,804,037	15q24.1	15q24.1
LU7_L	17	12	12	72,839,711	73,526,282	12q21.1	12q21.1
LU7_AD	3	12	12	72,841,462	73,525,321	12q21.1	12q21.1
LU18_L	3	18	18	72,851,898	72,891,148	18q22.3	18q22.3
LU7_AD	13	12	12	72,861,502	72,084,904	12q21.1	12q21.1
LU7_L	34	12	12	72,862,322	72,084,992	12q21.1	12q21.1
LU18_L	3	18	18	72,891,148	72,851,898	18q22.3	18q22.3
LU14_L	3	15	15	72,947,109	31,082,107	15q24.1	15q13.2
LU3_L	3	15	15	72,958,888	32,684,306	15q24.1	15q13.3
LU4_L	4	15	15	72,963,342	62,533,077	15q24.1	15q22.2
LU12_L	47	8	8	72,983,719	97,220,063	8q13.3	8q22.1
LU12_L	13	8	8	72,989,303	69,939,892	8q13.3	8q13.2
LU20_L	4	4	1	73,030,844	196,181,108	4q13.3	1q31.3
LU21_AD	5	4	4	73,038,589	121,044,292	4q13.3	4q27

LU6_L	4	16	16	73,101,839	72,790,922	16q22.3	16q22.2
LU18_AD	12	3	5	73,112,801	1,613,503	3p13	5p15.33
LU18_L	14	3	5	73,114,729	1,613,472	3p13	5p15.33
LU11_L	5	7	20	73,123,141	56,455,619	7q11.23	20q13.31
LU20_AD	3	5	5	73,158,427	71,187,539	5q13.2	5q13.2
LU20_AD	4	14	14	73,164,483	73,199,097	14q24.2	14q24.2
LU20_AD	4	14	14	73,199,097	73,164,483	14q24.2	14q24.2
LU4_AD	4	3	1	73,200,005	96,613,516	3p13	1p21.3
LU12_L	11	1	1	73,231,885	109,919,698	1p31.1	1p13.3
LU21_L	3	14	14	73,237,063	73,270,980	14q24.2	14q24.2
LU21_L	3	14	14	73,270,980	73,237,063	14q24.2	14q24.2
LU12_L	6	1	1	73,295,143	82,427,145	1p31.1	1p31.1
LU12_L	9	1	1	73,296,183	73,436,926	1p31.1	1p31.1
LU3_L	3	15	15	73,315,742	73,358,690	15q24.1	15q24.1
LU12_L	7	1	1	73,330,785	80,531,305	1p31.1	1p31.1
LU12_L	5	1	1	73,354,360	79,703,160	1p31.1	1p31.1
LU7_AD	5	14	20	73,357,682	2,527,625	14q24.2	20p13
LU3_L	3	15	15	73,358,690	73,315,742	15q24.1	15q24.1
LU12_L	3	1	1	73,361,369	106,888,769	1p31.1	1p21.1
LU7_L	10	14	20	73,361,574	2,532,334	14q24.2	20p13
LU12_L	5	1	1	73,375,595	104,122,986	1p31.1	1p21.1
LU12_L	10	1	1	73,379,044	93,839,370	1p31.1	1p22.1
LU18_AD	6	12	12	73,384,883	70,645,236	12q21.1	12q15
LU18_AD	6	12	11	73,385,458	5,595,619	12q21.1	11p15.4
LU18_L	7	12	12	73,385,694	70,645,706	12q21.1	12q15
LU18_L	5	12	11	73,387,926	4,530,266	12q21.1	11p15.4
LU11_L	7	4	12	73,433,765	68,132,925	4q13.3	12q15
LU12_L	9	1	1	73,436,926	73,296,183	1p31.1	1p31.1
LU3_AD	5	12	12	73,489,536	40,451,561	12q21.1	12q12
LU12_L	4	1	1	73,491,754	94,097,347	1p31.1	1p22.1
LU12_L	3	1	1	73,492,243	76,883,951	1p31.1	1p31.1
LU7_AD	3	12	12	73,525,321	72,841,462	12q21.1	12q21.1
LU7_L	17	12	12	73,526,282	72,839,711	12q21.1	12q21.1
LU12_L	9	1	1	73,578,896	103,298,406	1p31.1	1p21.1
LU7_AD	37	12	10	73,581,325	23,729,238	12q21.1	10p12.2
LU7_L	71	12	10	73,583,195	23,729,507	12q21.1	10p12.2
LU12_L	16	1	1	73,585,721	95,902,063	1p31.1	1p21.3
LU12_L	9	1	1	73,712,191	85,528,983	1p31.1	1p22.3
LU14_AD	3	10	7	73,714,512	12,629,328	10q22.1	7p21.3
LU12_L	12	1	1	73,715,449	85,714,808	1p31.1	1p22.3
LU12_L	14	1	1	73,735,464	102,063,777	1p31.1	1p21.2
LU12_L	16	8	8	73,803,411	76,419,118	8q13.3	8q21.11
LU5_AD	8	6	6	73,846,208	68,234,461	6q13	6q12
LU5_L	3	6	6	73,846,679	68,236,475	6q13	6q12

LU12_L	27	8	8	73,854,020	139,577,833	8q13.3	8q24.23
LU5_AD	3	6	12	73,856,692	22,385,695	6q13	12p12.1
LU3_AD	5	15	15	73,864,689	72,765,145	15q24.1	15q24.1
LU20_AD	3	3	5	73,868,393	118,205,580	3p13	5q23.1
LU6_L	35	9	9	73,905,759	73,940,332	9q21.12	9q21.12
LU6_AD	9	9	9	73,909,051	73,941,653	9q21.12	9q21.12
LU18_AD	3	8	18	73,932,898	14,380,030	8q21.11	18p11.21
LU6_L	35	9	9	73,940,332	73,905,759	9q21.12	9q21.12
LU6_AD	9	9	9	73,941,653	73,909,051	9q21.12	9q21.12
LU18_AD	4	8	23	73,957,654	83,003,971	8q21.11	Xq21.1
LU18_L	15	12	5	74,031,126	20,751,984	12q21.1	5p14.3
LU18_AD	14	12	5	74,031,148	20,751,960	12q21.1	5p14.3
LU3_L	3	8	8	74,124,150	74,154,054	8q21.11	8q21.11
LU3_L	3	8	8	74,154,054	74,124,150	8q21.11	8q21.11
LU15_AD	4	2	2	74,156,664	74,190,385	2p13.1	2p13.1
LU15_AD	4	2	2	74,190,385	74,156,664	2p13.1	2p13.1
LU12_L	8	1	1	74,216,241	93,971,649	1p31.1	1p22.1
LU12_L	11	1	1	74,218,739	77,779,837	1p31.1	1p31.1
LU12_L	4	1	1	74,221,666	90,464,010	1p31.1	1p22.2
LU12_L	6	1	1	74,222,049	84,642,678	1p31.1	1p31.1
LU8_L	3	4	5	74,234,453	1,579,275	4q13.3	5p15.33
LU18_AD	3	4	5	74,236,597	1,578,831	4q13.3	5p15.33
LU12_L	18	1	1	74,251,737	91,636,872	1p31.1	1p22.2
LU3_AD	5	12	12	74,253,895	39,086,108	12q21.1	12q12
LU12_AD	3	12	18	74,254,366	44,355,424	12q21.1	18q21.1
LU12_L	11	1	1	74,257,154	97,226,733	1p31.1	1p21.3
LU12_L	20	1	1	74,262,177	99,414,426	1p31.1	1p21.3
LU12_L	7	1	1	74,269,615	80,704,166	1p31.1	1p31.1
LU12_L	4	1	1	74,276,194	103,477,630	1p31.1	1p21.1
LU12_L	13	1	1	74,292,500	83,297,365	1p31.1	1p31.1
LU8_L	16	12	12	74,301,774	74,425,078	12q21.1	12q21.1
LU8_AD	7	12	12	74,304,245	74,425,551	12q21.1	12q21.1
LU12_L	12	1	1	74,308,228	107,750,664	1p31.1	1p13.3
LU12_L	10	1	1	74,323,355	80,514,474	1p31.1	1p31.1
LU18_AD	5	12	25	74,326,798	1,635,702	12q21.1	25
LU18_L	5	12	25	74,327,559	1,635,452	12q21.1	25
LU12_L	11	1	1	74,344,084	99,951,290	1p31.1	1p21.2
LU12_L	5	1	1	74,380,185	76,326,140	1p31.1	1p31.1
LU12_L	11	1	1	74,406,487	107,749,931	1p31.1	1p13.3
LU20_L	3	13	13	74,407,158	74,443,900	13q22.1	13q22.1
LU8_L	16	12	12	74,425,078	74,301,774	12q21.1	12q21.1
LU8_AD	7	12	12	74,425,551	74,304,245	12q21.1	12q21.1
LU20_L	3	13	13	74,443,900	74,407,158	13q22.1	13q22.1
LU12_L	4	1	1	74,464,342	107,373,725	1p31.1	1p13.3

LU15_L	3	4	4	74,486,900	74,518,347	4q13.3	4q13.3
LU12_L	13	1	1	74,489,027	85,815,737	1p31.1	1p22.3
LU3_AD	3	6	6	74,510,801	74,541,409	6q13	6q13
LU12_L	6	1	1	74,513,330	81,083,673	1p31.1	1p31.1
LU12_L	4	1	1	74,514,481	76,186,938	1p31.1	1p31.1
LU12_L	9	1	1	74,516,363	77,888,188	1p31.1	1p31.1
LU15_L	3	4	4	74,518,347	74,486,900	4q13.3	4q13.3
LU12_L	10	1	1	74,522,129	105,588,081	1p31.1	1p21.1
LU18_L	26	12	11	74,529,640	19,621,346	12q21.1	11p15.1
LU18_AD	22	12	11	74,532,208	19,621,351	12q21.1	11p15.1
LU3_AD	3	6	6	74,541,409	74,510,801	6q13	6q13
LU12_L	3	1	1	74,548,986	84,819,840	1p31.1	1p31.1
LU12_L	8	1	1	74,557,423	108,209,334	1p31.1	1p13.3
LU12_L	4	1	1	74,564,523	83,378,519	1p31.1	1p31.1
LU12_L	11	1	1	74,566,756	96,449,103	1p31.1	1p21.3
LU4_L	3	13	13	74,591,081	74,625,006	13q22.1	13q22.1
LU4_L	3	13	13	74,625,006	74,591,081	13q22.1	13q22.1
LU12_L	11	1	1	74,654,459	100,303,275	1p31.1	1p21.2
LU15_AD	3	12	6	74,661,691	123,069,148	12q21.1	6q22.31
LU18_AD	4	12	6	74,663,418	123,065,820	12q21.1	6q22.31
LU12_L	5	1	1	74,667,614	104,406,467	1p31.1	1p21.1
LU12_L	8	1	1	74,677,512	77,628,298	1p31.1	1p31.1
LU3_AD	3	12	12	74,678,084	72,012,416	12q21.1	12q21.1
LU12_L	13	1	1	74,684,786	86,878,048	1p31.1	1p22.3
LU12_L	11	1	1	74,692,751	109,150,600	1p31.1	1p13.3
LU18_L	12	12	7	74,749,739	24,580,932	12q21.1	7p15.3
LU7_L	8	13	13	74,771,565	75,721,116	13q22.1	13q22.2
LU4_AD	4	1	19	74,771,728	43,032,863	1p31.1	19q13.2
LU7_AD	4	13	13	74,771,988	75,721,621	13q22.1	13q22.2
LU4_L	3	3	3	74,798,182	74,829,686	3p12.3	3p12.3
LU12_AD	3	4	1	74,815,212	33,533,152	4q13.3	1p35.1
LU12_L	8	1	1	74,822,838	96,059,508	1p31.1	1p21.3
LU4_L	3	3	3	74,829,686	74,798,182	3p12.3	3p12.3
LU12_L	8	1	1	74,852,538	92,879,907	1p31.1	1p22.1
LU12_L	27	1	1	74,860,023	86,921,071	1p31.1	1p22.3
LU12_L	28	1	1	74,860,712	100,247,500	1p31.1	1p21.2
LU3_AD	3	12	12	74,904,723	38,751,078	12q21.1	12q12
LU12_L	6	1	1	74,994,103	108,590,287	1p31.1	1p13.3
LU3_AD	3	13	13	75,016,391	75,047,256	13q22.1	13q22.1
LU3_AD	3	13	13	75,047,256	75,016,391	13q22.1	13q22.1
LU18_L	3	12	12	75,107,371	75,158,734	12q21.1	12q21.1
LU4_AD	3	23	6	75,121,255	106,679,619	Xq13.3	6q21
LU4_AD	4	23	23	75,126,139	75,167,620	Xq13.3	Xq13.3
LU18_L	3	12	12	75,158,734	75,107,371	12q21.1	12q21.1

LU12_L	6	1	1	75,159,141	97,100,967	1p31.1	1p21.3
LU4_AD	4	23	23	75,167,620	75,126,139	Xq13.3	Xq13.3
LU12_L	7	1	1	75,172,853	95,197,167	1p31.1	1p21.3
LU16_AD	5	12	14	75,211,468	51,053,399	12q21.1	14q22.1
LU12_L	10	1	1	75,225,543	93,379,387	1p31.1	1p22.1
LU20_L	3	23	10	75,250,527	100,772,142	Xq13.3	10q24.2
LU21_L	18	5	5	75,281,816	148,767,516	5q13.3	5q32
LU21_AD	21	5	5	75,282,221	148,767,750	5q13.3	5q32
LU16_AD	8	12	14	75,340,495	51,259,980	12q21.1	14q22.1
LU12_L	9	1	1	75,434,427	98,476,719	1p31.1	1p21.3
LU12_L	18	1	1	75,439,628	87,046,287	1p31.1	1p22.3
LU18_L	9	12	11	75,446,258	2,381,189	12q21.1	11p15.5
LU18_AD	10	12	11	75,446,462	2,380,674	12q21.1	11p15.5
LU18_AD	6	12	7	75,447,147	10,603,140	12q21.1	7p21.3
LU12_L	5	1	1	75,449,313	93,090,786	1p31.1	1p22.1
LU20_AD	4	9	9	75,454,727	34,937,867	9q21.13	9p13.3
LU6_L	6	16	5	75,495,173	127,123,161	16q23.1	5q23.2
LU18_AD	3	18	18	75,520,514	75,557,152	18q23	18q23
LU15_L	3	15	15	75,541,980	85,722,255	15q24.2	15q25.3
LU21_AD	3	3	15	75,556,639	89,082,619	3p12.3	15q25.3
LU18_AD	3	18	18	75,557,152	75,520,514	18q23	18q23
LU3_L	4	12	12	75,561,244	77,151,297	12q21.1	12q21.2
LU12_L	7	3	8	75,585,360	11,407,532	3p12.3	8p23.1
LU15_L	4	15	15	75,592,053	79,027,205	15q24.2	15q25.1
LU3_L	3	15	15	75,595,768	102,306,444	15q24.2	15q26.3
LU12_L	7	1	1	75,607,215	104,534,006	1p31.1	1p21.1
LU12_L	5	1	1	75,612,790	97,154,074	1p31.1	1p21.3
LU3_AD	15	12	12	75,614,678	17,709,902	12q21.1	12p12.3
LU12_L	12	1	1	75,617,661	93,880,801	1p31.1	1p22.1
LU12_L	8	1	1	75,627,542	99,581,245	1p31.1	1p21.3
LU12_L	15	1	1	75,669,913	86,668,344	1p31.1	1p22.3
LU12_L	4	1	1	75,672,611	95,251,892	1p31.1	1p21.3
LU12_L	10	1	1	75,680,237	105,472,252	1p31.1	1p21.1
LU20_L	3	7	7	75,705,631	63,205,584	7q11.23	7q11.21
LU4_AD	3	7	7	75,706,779	56,923,588	7q11.23	7p11.2
LU18_AD	3	13	13	75,712,112	75,761,790	13q22.2	13q22.2
LU7_L	8	13	13	75,721,116	74,771,565	13q22.2	13q22.1
LU7_AD	4	13	13	75,721,621	74,771,988	13q22.2	13q22.1
LU20_AD	3	3	3	75,725,762	21,401,124	3p12.3	3p24.3
LU18_AD	3	13	13	75,761,790	75,712,112	13q22.2	13q22.2
LU7_AD	3	8	8	75,763,449	81,821,624	8q21.11	8q21.13
LU7_L	4	8	8	75,764,173	81,822,506	8q21.11	8q21.13
LU12_L	8	1	1	75,875,860	95,741,177	1p31.1	1p21.3
LU4_L	3	3	25	75,900,047	1,812,773	3p12.3	25

LU12_L	10	1	1	75,902,112	99,419,298	1p31.1	1p21.3
LU12_L	10	1	1	75,914,637	90,537,257	1p31.1	1p22.2
LU18_AD	5	8	6	75,958,368	6,063,234	8q21.11	6p25.1
LU4_AD	5	15	9	76,030,078	131,013,375	15q24.2	9q34.11
LU18_L	4	15	9	76,030,292	131,013,132	15q24.2	9q34.11
LU12_L	10	1	1	76,040,346	78,691,930	1p31.1	1p31.1
LU12_L	12	1	1	76,041,446	96,580,006	1p31.1	1p21.3
LU12_L	6	1	1	76,088,510	77,385,607	1p31.1	1p31.1
LU12_L	7	1	1	76,089,228	101,907,490	1p31.1	1p21.2
LU18_L	3	2	14	76,097,417	22,706,502	2p12	14q11.2
LU21_AD	3	2	2	76,106,451	31,854,076	2p12	2p23.1
LU4_AD	3	17	1	76,109,356	43,351,931	17q25.3	1p34.2
LU3_AD	4	9	9	76,124,696	76,154,209	9q21.13	9q21.13
LU3_AD	4	9	9	76,154,209	76,124,696	9q21.13	9q21.13
LU3_L	3	12	12	76,158,088	53,309,863	12q21.2	12q13.13
LU12_L	4	1	1	76,186,938	74,514,481	1p31.1	1p31.1
LU12_L	5	7	1	76,211,767	83,435,575	7q11.23	1p31.1
LU12_L	9	1	1	76,233,362	86,888,295	1p31.1	1p22.3
LU3_L	5	4	4	76,266,749	76,298,500	4q13.3	4q13.3
LU12_L	10	1	1	76,295,847	96,594,117	1p31.1	1p21.3
LU3_L	5	4	4	76,298,500	76,266,749	4q13.3	4q13.3
LU12_L	5	1	1	76,326,140	74,380,185	1p31.1	1p31.1
LU12_L	6	1	1	76,329,878	95,790,930	1p31.1	1p21.3
LU12_L	5	1	1	76,369,184	85,824,935	1p31.1	1p22.3
LU8_L	4	16	11	76,371,262	27,157,438	16q23.1	11p14.2
LU12_L	12	1	1	76,400,821	87,728,827	1p31.1	1p22.3
LU12_L	16	8	8	76,419,118	73,803,411	8q21.11	8q13.3
LU12_L	10	1	1	76,430,394	87,661,203	1p31.1	1p22.3
LU12_L	15	1	1	76,531,877	87,421,783	1p31.1	1p22.3
LU3_L	3	8	8	76,551,571	76,589,128	8q21.11	8q21.11
LU12_L	6	1	1	76,561,520	76,795,076	1p31.1	1p31.1
LU12_L	6	1	1	76,563,353	108,593,537	1p31.1	1p13.3
LU3_L	3	8	8	76,589,128	76,551,571	8q21.11	8q21.11
LU16_AD	26	12	12	76,601,352	64,280,551	12q21.2	12q14.2
LU16_L	4	12	12	76,603,666	64,284,063	12q21.2	12q14.2
LU18_AD	13	12	7	76,606,823	9,529,537	12q21.2	7p21.3
LU18_L	8	12	7	76,608,296	9,529,254	12q21.2	7p21.3
LU12_L	4	1	1	76,623,782	95,248,275	1p31.1	1p21.3
LU12_L	19	1	1	76,627,487	95,388,236	1p31.1	1p21.3
LU12_L	15	1	1	76,632,720	104,066,140	1p31.1	1p21.1
LU5_AD	3	1	1	76,637,029	76,667,916	1p31.1	1p31.1
LU12_L	7	1	1	76,657,485	92,819,398	1p31.1	1p22.1
LU3_L	3	18	18	76,665,968	76,720,347	18q23	18q23
LU5_AD	3	1	1	76,667,916	76,637,029	1p31.1	1p31.1

LU3_AD	3	16	16	76,684,900	76,717,045	16q23.1	16q23.1
LU3_AD	3	16	16	76,717,045	76,684,900	16q23.1	16q23.1
LU3_L	3	18	18	76,720,347	76,665,968	18q23	18q23
LU4_AD	3	23	8	76,759,203	19,017,786	Xq21.1	8p21.3
LU12_L	10	1	1	76,773,698	88,768,168	1p31.1	1p22.2
LU12_L	8	1	1	76,784,647	85,825,811	1p31.1	1p22.3
LU12_L	5	1	1	76,785,519	101,104,565	1p31.1	1p21.2
LU12_L	4	1	1	76,794,180	109,207,005	1p31.1	1p13.3
LU12_L	6	1	1	76,795,076	76,561,520	1p31.1	1p31.1
LU18_AD	3	18	18	76,861,627	76,892,416	18q23	18q23
LU12_L	10	1	1	76,879,407	89,224,547	1p31.1	1p22.2
LU12_L	6	1	1	76,881,405	94,097,312	1p31.1	1p22.1
LU12_L	3	1	1	76,883,951	73,492,243	1p31.1	1p31.1
LU4_L	3	5	3	76,885,095	132,544,990	5q13.3	3q22.1
LU18_AD	3	18	18	76,892,416	76,861,627	18q23	18q23
LU15_AD	3	15	15	76,909,625	76,942,485	15q24.3	15q24.3
LU15_AD	3	15	15	76,942,485	76,909,625	15q24.3	15q24.3
LU12_L	10	1	1	76,943,529	98,807,947	1p31.1	1p21.3
LU3_L	6	12	12	76,954,885	62,828,795	12q21.2	12q14.1
LU12_L	11	1	1	76,955,117	101,911,898	1p31.1	1p21.2
LU3_AD	3	16	16	76,970,613	77,001,115	16q23.1	16q23.1
LU12_L	5	1	1	76,989,619	101,076,825	1p31.1	1p21.2
LU3_AD	3	16	16	77,001,115	76,970,613	16q23.1	16q23.1
LU12_L	7	1	1	77,006,035	89,456,825	1p31.1	1p22.2
LU12_L	13	1	1	77,133,911	101,345,143	1p31.1	1p21.2
LU12_L	11	1	1	77,135,125	88,578,186	1p31.1	1p22.2
LU3_L	16	12	12	77,137,487	79,361,479	12q21.2	12q21.2
LU3_L	6	12	12	77,140,802	60,257,490	12q21.2	12q14.1
LU3_L	4	12	12	77,151,297	75,561,244	12q21.2	12q21.1
LU14_L	9	9	9	77,323,487	101,463,756	9q21.13	9q22.33
LU12_L	6	1	1	77,385,607	76,088,510	1p31.1	1p31.1
LU11_L	3	5	15	77,397,221	24,502,232	5q14.1	15q11.2
LU12_L	18	1	1	77,405,378	88,188,686	1p31.1	1p22.3
LU12_L	10	1	1	77,480,430	89,996,438	1p31.1	1p22.2
LU12_L	5	1	1	77,520,744	93,781,064	1p31.1	1p22.1
LU18_L	4	9	6	77,551,202	151,763,214	9q21.13	6q25.1
LU21_AD	3	1	15	77,594,654	71,633,725	1p31.1	15q23
LU12_L	8	1	1	77,628,298	74,677,512	1p31.1	1p31.1
LU12_L	7	1	1	77,644,945	101,321,014	1p31.1	1p21.2
LU20_AD	3	15	15	77,694,144	77,724,446	15q24.3	15q24.3
LU15_L	3	13	13	77,714,662	77,744,308	13q22.3	13q22.3
LU20_AD	3	15	15	77,724,446	77,694,144	15q24.3	15q24.3
LU15_L	3	13	13	77,744,308	77,714,662	13q22.3	13q22.3
LU7_AD	3	18	5	77,751,586	35,994,435	18q23	5p13.2

LU12_L	11	1	1	77,779,837	74,218,739	1p31.1	1p31.1
LU12_L	6	1	1	77,799,373	96,863,234	1p31.1	1p21.3
LU12_L	7	1	1	77,806,083	81,102,800	1p31.1	1p31.1
LU20_AD	4	10	10	77,807,666	77,848,400	10q22.3	10q22.3
LU12_L	15	1	1	77,809,037	107,794,820	1p31.1	1p13.3
LU4_L	3	18	5	77,816,896	155,213,943	18q23	5q33.2
LU4_AD	23	18	5	77,817,164	155,213,706	18q23	5q33.2
LU20_AD	4	10	10	77,848,400	77,807,666	10q22.3	10q22.3
LU12_L	13	1	1	77,871,309	100,947,388	1p31.1	1p21.2
LU3_L	3	7	7	77,873,566	77,907,814	7q21.11	7q21.11
LU12_L	4	1	1	77,881,253	78,465,408	1p31.1	1p31.1
LU12_L	9	1	1	77,888,188	74,516,363	1p31.1	1p31.1
LU12_L	8	1	1	77,888,477	82,523,141	1p31.1	1p31.1
LU3_L	3	7	7	77,907,814	77,873,566	7q21.11	7q21.11
LU12_L	5	1	1	78,042,079	89,119,378	1p31.1	1p22.2
LU18_L	3	3	3	78,065,254	78,119,382	3p12.3	3p12.3
LU12_L	4	1	1	78,102,040	78,773,899	1p31.1	1p31.1
LU4_AD	4	9	9	78,116,968	78,149,145	9q21.13	9q21.13
LU18_L	3	3	3	78,119,382	78,065,254	3p12.3	3p12.3
LU12_L	15	1	1	78,124,955	104,810,326	1p31.1	1p21.1
LU4_AD	4	9	9	78,149,145	78,116,968	9q21.13	9q21.13
LU20_L	5	15	24	78,154,957	26,404,246	15q24.3	Yq11.23
LU21_AD	3	15	24	78,154,957	26,404,253	15q24.3	Yq11.23
LU20_L	4	15	15	78,191,578	84,861,947	15q24.3	15q25.2
LU18_L	3	15	15	78,218,939	62,560,964	15q24.3	15q22.2
LU8_L	3	5	2	78,289,120	194,393,304	5q14.1	2q32.3
LU20_L	3	13	13	78,296,640	78,329,469	13q22.3	13q22.3
LU3_AD	3	14	14	78,322,075	78,354,112	14q24.3	14q24.3
LU20_L	3	13	13	78,329,469	78,296,640	13q22.3	13q22.3
LU3_AD	3	14	14	78,354,112	78,322,075	14q24.3	14q24.3
LU11_AD	3	5	2	78,421,769	208,475,786	5q14.1	2q33.3
LU12_L	4	1	1	78,465,408	77,881,253	1p31.1	1p31.1
LU12_L	4	1	1	78,471,716	88,604,121	1p31.1	1p22.2
LU12_L	8	1	1	78,473,993	101,119,306	1p31.1	1p21.2
LU12_L	6	1	1	78,493,070	89,972,490	1p31.1	1p22.2
LU12_L	9	1	1	78,494,694	92,561,748	1p31.1	1p22.1
LU12_L	3	1	1	78,497,350	109,296,882	1p31.1	1p13.3
LU12_L	4	1	1	78,509,184	78,540,332	1p31.1	1p31.1
LU12_L	4	1	1	78,540,332	78,509,184	1p31.1	1p31.1
LU12_L	9	1	1	78,540,634	92,948,027	1p31.1	1p22.1
LU7_L	3	13	4	78,542,756	104,148,247	13q22.3	4q24
LU12_L	3	1	1	78,593,893	100,425,043	1p31.1	1p21.2
LU12_L	6	1	1	78,594,332	92,784,063	1p31.1	1p22.1
LU12_L	7	1	1	78,637,968	92,361,131	1p31.1	1p22.1

LU12_L	7	1	1	78,688,784	109,145,065	1p31.1	1p13.3
LU12_L	10	1	1	78,691,930	76,040,346	1p31.1	1p31.1
LU12_L	4	1	1	78,773,899	78,102,040	1p31.1	1p31.1
LU12_L	4	1	1	78,773,927	95,427,228	1p31.1	1p21.3
LU12_L	7	1	1	78,825,994	101,936,158	1p31.1	1p21.2
LU5_AD	3	12	12	78,828,825	78,860,108	12q21.2	12q21.2
LU12_L	8	1	1	78,830,147	107,927,617	1p31.1	1p13.3
LU5_AD	3	12	12	78,860,108	78,828,825	12q21.2	12q21.2
LU18_AD	8	11	8	78,980,721	19,287,152	11q14.1	8p21.3
LU18_L	6	11	8	78,981,222	19,288,483	11q14.1	8p21.3
LU12_L	4	1	1	78,981,480	91,169,160	1p31.1	1p22.2
LU5_L	4	7	7	78,988,883	79,022,296	7q21.11	7q21.11
LU12_L	9	1	1	78,991,419	105,435,382	1p31.1	1p21.1
LU18_AD	3	15	7	79,009,524	30,570,704	15q25.1	7p14.3
LU12_L	7	1	1	79,019,360	79,388,607	1p31.1	1p31.1
LU5_L	4	7	7	79,022,296	78,988,883	7q21.11	7q21.11
LU15_L	4	15	15	79,027,205	75,592,053	15q25.1	15q24.2
LU6_AD	4	11	1	79,041,291	29,236,293	11q14.1	1p35.3
LU12_L	9	1	1	79,067,575	79,208,506	1p31.1	1p31.1
LU12_L	5	1	1	79,070,650	106,658,761	1p31.1	1p21.1
LU4_AD	5	7	7	79,101,113	6,869,392	7q21.11	7p22.1
LU12_L	15	1	1	79,137,130	82,081,627	1p31.1	1p31.1
LU12_L	17	1	1	79,163,016	106,241,251	1p31.1	1p21.1
LU12_L	9	1	1	79,208,506	79,067,575	1p31.1	1p31.1
LU4_AD	4	23	3	79,214,828	96,386,438	Xq21.1	3q11.2
LU12_L	5	1	1	79,224,864	109,588,301	1p31.1	1p13.3
LU7_L	5	7	7	79,256,868	129,040,965	7q21.11	7q32.1
LU6_AD	11	11	11	79,307,885	79,382,110	11q14.1	11q14.1
LU6_AD	3	11	11	79,307,980	79,592,006	11q14.1	11q14.1
LU3_L	16	12	12	79,361,479	77,137,487	12q21.2	12q21.2
LU12_L	8	1	1	79,380,664	91,846,544	1p31.1	1p22.2
LU6_AD	11	11	11	79,382,110	79,307,885	11q14.1	11q14.1
LU12_L	7	1	1	79,388,607	79,019,360	1p31.1	1p31.1
LU12_AD	3	11	11	79,410,492	79,454,497	11q14.1	11q14.1
LU12_L	15	1	1	79,420,314	83,012,677	1p31.1	1p31.1
LU12_L	10	1	1	79,449,074	104,486,255	1p31.1	1p21.1
LU12_AD	3	11	11	79,454,497	79,410,492	11q14.1	11q14.1
LU18_AD	3	23	23	79,570,979	111,102,966	Xq21.1	Xq23
LU12_L	14	1	1	79,580,675	102,076,509	1p31.1	1p21.2
LU12_L	8	1	1	79,589,137	82,064,390	1p31.1	1p31.1
LU12_L	20	1	1	79,591,967	98,963,268	1p31.1	1p21.3
LU6_AD	3	11	11	79,592,006	79,307,980	11q14.1	11q14.1
LU12_L	6	1	1	79,667,372	86,575,140	1p31.1	1p22.3
LU12_L	13	1	1	79,691,456	107,825,228	1p31.1	1p13.3

LU12_L	5	1	1	79,703,160	73,354,360	1p31.1	1p31.1
LU12_L	18	1	1	79,740,820	92,248,262	1p31.1	1p22.1
LU12_L	11	1	1	79,746,172	91,006,857	1p31.1	1p22.2
LU12_L	11	1	1	79,758,515	88,945,097	1p31.1	1p22.2
LU12_L	6	1	1	79,776,731	107,303,133	1p31.1	1p13.3
LU12_L	9	1	1	79,807,611	96,788,450	1p31.1	1p21.3
LU21_AD	3	3	18	79,825,860	53,619,012	3p12.2	18q21.2
LU20_AD	4	3	19	79,826,839	9,837,654	3p12.2	19p13.2
LU12_L	4	1	1	79,864,084	105,066,399	1p31.1	1p21.1
LU12_L	11	1	1	79,864,247	94,533,360	1p31.1	1p22.1
LU12_L	7	1	1	79,864,700	91,628,562	1p31.1	1p22.2
LU14_AD	3	12	6	79,865,363	58,586,140	12q21.2	6p11.2
LU8_AD	3	12	6	79,869,218	58,582,345	12q21.2	6p11.2
LU21_AD	3	12	3	79,872,963	8,739,278	12q21.2	3p25.3
LU3_L	3	4	4	79,881,483	79,919,277	4q21.21	4q21.21
LU3_L	3	4	4	79,919,277	79,881,483	4q21.21	4q21.21
LU7_AD	3	5	6	79,924,384	31,328,983	5q14.1	6p21.33
LU15_AD	3	11	11	79,949,813	79,987,066	11q14.1	11q14.1
LU12_L	5	1	1	79,952,298	109,863,977	1p31.1	1p13.3
LU12_L	10	1	1	79,966,750	80,382,916	1p31.1	1p31.1
LU15_AD	3	11	11	79,987,066	79,949,813	11q14.1	11q14.1
LU15_AD	3	1	4	79,987,746	99,995,054	1p31.1	4q23
LU12_L	18	1	1	80,049,315	109,803,850	1p31.1	1p13.3
LU20_L	3	2	2	80,168,459	80,219,695	2p12	2p12
LU3_AD	5	13	13	80,173,781	80,203,525	13q31.1	13q31.1
LU3_AD	5	13	13	80,203,525	80,173,781	13q31.1	13q31.1
LU20_L	3	2	2	80,219,695	80,168,459	2p12	2p12
LU18_L	4	6	7	80,235,406	21,590,554	6q14.1	7p15.3
LU12_L	11	1	1	80,249,384	107,786,062	1p31.1	1p13.3
LU4_AD	3	13	13	80,268,756	80,302,684	13q31.1	13q31.1
LU4_AD	3	13	13	80,302,684	80,268,756	13q31.1	13q31.1
LU12_L	6	1	1	80,343,771	85,940,890	1p31.1	1p22.3
LU12_L	10	1	1	80,382,916	79,966,750	1p31.1	1p31.1
LU12_L	9	1	1	80,424,241	99,912,129	1p31.1	1p21.2
LU3_L	5	12	12	80,431,192	58,302,137	12q21.31	12q14.1
LU12_L	10	1	1	80,433,247	102,850,184	1p31.1	1p21.1
LU20_L	3	14	14	80,511,626	80,547,052	14q31.1	14q31.1
LU12_L	10	1	1	80,514,474	74,323,355	1p31.1	1p31.1
LU12_L	7	1	1	80,531,305	73,330,785	1p31.1	1p31.1
LU12_L	5	1	1	80,533,477	87,404,063	1p31.1	1p22.3
LU12_L	6	1	1	80,537,825	87,459,026	1p31.1	1p22.3
LU20_L	3	14	14	80,547,052	80,511,626	14q31.1	14q31.1
LU3_L	3	14	14	80,655,915	80,685,576	14q31.1	14q31.1
LU8_L	3	4	4	80,672,786	80,764,447	4q21.21	4q21.21

LU3_L	3	14	14	80,685,576	80,655,915	14q31.1	14q31.1
LU3_L	15	12	12	80,686,253	20,081,482	12q21.31	12p12.2
LU12_L	10	1	1	80,702,345	87,730,896	1p31.1	1p22.3
LU12_L	7	1	1	80,704,166	74,269,615	1p31.1	1p31.1
LU12_L	31	1	1	80,719,845	90,959,859	1p31.1	1p22.2
LU12_L	6	1	1	80,735,643	85,362,775	1p31.1	1p22.3
LU12_L	9	1	1	80,751,514	81,932,134	1p31.1	1p31.1
LU8_L	3	4	4	80,764,447	80,672,786	4q21.21	4q21.21
LU12_L	3	9	9	80,795,932	125,299,079	9q21.2	9q33.2
LU12_L	11	1	1	80,811,971	92,240,848	1p31.1	1p22.1
LU3_AD	3	11	11	80,830,564	80,878,689	11q14.1	11q14.1
LU3_AD	3	6	6	80,873,506	80,904,600	6q14.1	6q14.1
LU3_AD	3	11	11	80,878,689	80,830,564	11q14.1	11q14.1
LU4_AD	4	8	8	80,900,684	80,931,512	8q21.13	8q21.13
LU21_AD	4	4	4	80,902,546	80,934,673	4q21.21	4q21.21
LU3_AD	3	6	6	80,904,600	80,873,506	6q14.1	6q14.1
LU4_AD	3	11	11	80,909,977	80,943,434	11q14.1	11q14.1
LU4_AD	4	8	8	80,931,512	80,900,684	8q21.13	8q21.13
LU21_AD	4	4	4	80,934,673	80,902,546	4q21.21	4q21.21
LU12_L	8	1	1	80,943,321	103,684,314	1p31.1	1p21.1
LU4_AD	3	11	11	80,943,434	80,909,977	11q14.1	11q14.1
LU12_L	9	1	1	80,951,507	97,309,756	1p31.1	1p21.3
LU12_L	6	1	1	80,956,046	102,057,203	1p31.1	1p21.2
LU12_L	4	1	1	80,959,009	102,803,793	1p31.1	1p21.1
LU12_L	9	1	1	81,062,208	103,684,123	1p31.1	1p21.1
LU12_L	10	1	1	81,068,929	84,878,801	1p31.1	1p31.1
LU12_L	6	1	1	81,083,673	74,513,330	1p31.1	1p31.1
LU12_L	7	1	1	81,102,800	77,806,083	1p31.1	1p31.1
LU12_L	14	1	1	81,227,403	102,107,864	1p31.1	1p21.2
LU12_L	10	1	1	81,228,497	96,967,334	1p31.1	1p21.3
LU12_L	13	1	1	81,243,595	89,101,227	1p31.1	1p22.2
LU12_L	9	1	1	81,243,715	107,486,532	1p31.1	1p13.3
LU12_L	5	1	1	81,255,086	89,994,133	1p31.1	1p22.2
LU12_L	9	1	1	81,258,296	87,595,592	1p31.1	1p22.3
LU12_L	8	1	1	81,266,551	86,610,441	1p31.1	1p22.3
LU12_L	6	1	1	81,271,229	94,412,091	1p31.1	1p22.1
LU12_L	10	1	1	81,301,404	106,502,128	1p31.1	1p21.1
LU4_L	6	2	2	81,308,930	81,340,273	2p12	2p12
LU4_L	6	2	2	81,340,273	81,308,930	2p12	2p12
LU3_L	5	4	4	81,340,812	81,372,329	4q21.21	4q21.21
LU8_L	3	14	14	81,348,743	81,381,823	14q31.1	14q31.1
LU12_AD	5	6	4	81,362,758	168,797,286	6q14.1	4q32.3
LU3_L	5	4	4	81,372,329	81,340,812	4q21.21	4q21.21
LU18_L	4	16	8	81,373,846	68,270,440	16q23.2	8q13.2

LU8_L	3	14	14	81,381,823	81,348,743	14q31.1	14q31.1
LU12_AD	3	11	11	81,407,103	57,638,832	11q14.1	11q12.1
LU20_L	3	10	10	81,454,773	46,961,257	10q22.3	10q11.22
LU16_AD	36	12	12	81,496,923	64,458,975	12q21.31	12q14.2
LU16_L	4	12	12	81,499,617	64,458,615	12q21.31	12q14.2
LU4_AD	3	8	11	81,507,140	18,231,629	8q21.13	11p15.1
LU16_AD	15	12	12	81,527,118	64,641,684	12q21.31	12q14.2
LU4_L	3	10	10	81,556,644	52,416,182	10q22.3	10q11.23
LU12_L	6	1	1	81,561,768	103,113,212	1p31.1	1p21.1
LU5_AD	3	5	5	81,621,307	81,661,629	5q14.2	5q14.2
LU12_L	9	1	1	81,649,055	107,932,861	1p31.1	1p13.3
LU16_AD	3	8	4	81,649,805	42,289,151	8q21.13	4p13
LU5_AD	3	5	5	81,661,629	81,621,307	5q14.2	5q14.2
LU18_AD	3	4	4	81,688,834	81,722,683	4q21.21	4q21.21
LU18_AD	3	4	4	81,722,683	81,688,834	4q21.21	4q21.21
LU12_L	3	1	1	81,738,397	103,020,556	1p31.1	1p21.1
LU12_L	15	1	1	81,742,408	104,632,073	1p31.1	1p21.1
LU12_L	8	1	1	81,754,771	107,523,885	1p31.1	1p13.3
LU12_L	5	1	1	81,771,775	83,292,146	1p31.1	1p31.1
LU12_L	8	1	1	81,773,073	101,373,562	1p31.1	1p21.2
LU12_L	3	1	1	81,809,485	82,523,932	1p31.1	1p31.1
LU7_AD	3	8	8	81,821,624	75,763,449	8q21.13	8q21.11
LU7_L	4	8	8	81,822,506	75,764,173	8q21.13	8q21.11
LU12_L	3	7	6	81,832,786	67,190,135	7q21.11	6q12
LU18_AD	6	7	7	81,874,422	125,863,978	7q21.11	7q31.33
LU18_L	7	7	7	81,874,811	125,862,679	7q21.11	7q31.33
LU12_L	6	1	1	81,905,557	85,974,772	1p31.1	1p22.3
LU12_L	9	1	1	81,932,134	80,751,514	1p31.1	1p31.1
LU12_L	8	1	1	82,058,976	85,514,208	1p31.1	1p22.3
LU12_L	8	1	1	82,064,390	79,589,137	1p31.1	1p31.1
LU12_L	4	1	1	82,065,382	93,576,738	1p31.1	1p22.1
LU12_L	8	1	1	82,070,839	85,006,935	1p31.1	1p22.3
LU4_L	3	3	3	82,081,221	82,113,000	3p12.2	3p12.2
LU12_L	15	1	1	82,081,627	79,137,130	1p31.1	1p31.1
LU4_L	3	3	3	82,113,000	82,081,221	3p12.2	3p12.2
LU12_L	7	1	1	82,128,745	93,488,994	1p31.1	1p22.1
LU12_L	6	1	1	82,140,162	102,203,596	1p31.1	1p21.1
LU12_L	11	1	1	82,143,441	101,324,334	1p31.1	1p21.2
LU12_L	8	1	1	82,165,879	85,088,972	1p31.1	1p22.3
LU18_L	4	4	8	82,178,454	114,025,858	4q21.21	8q23.3
LU12_L	7	1	1	82,240,320	83,727,829	1p31.1	1p31.1
LU4_AD	3	7	23	82,264,352	115,375,840	7q21.11	Xq23
LU21_AD	3	5	7	82,264,659	132,855,259	5q14.2	7q33
LU12_L	9	1	1	82,265,679	83,530,179	1p31.1	1p31.1

LU12_L	3	1	1	82,269,393	83,365,337	1p31.1	1p31.1
LU11_AD	4	7	5	82,274,949	125,557,443	7q21.11	5q23.2
LU12_AD	6	11	15	82,278,763	72,507,445	11q14.1	15q23
LU12_L	8	1	1	82,284,799	83,442,959	1p31.1	1p31.1
LU18_AD	3	8	8	82,288,981	82,338,674	8q21.13	8q21.13
LU16_AD	3	12	12	82,295,187	95,844,159	12q21.31	12q22
LU12_L	6	1	1	82,337,202	96,527,183	1p31.1	1p21.3
LU21_L	3	11	8	82,338,659	27,351,219	11q14.1	8p21.2
LU18_AD	3	8	8	82,338,674	82,288,981	8q21.13	8q21.13
LU12_L	11	1	1	82,339,315	87,648,153	1p31.1	1p22.3
LU12_L	5	1	1	82,339,929	107,557,437	1p31.1	1p13.3
LU3_AD	7	8	8	82,370,615	86,554,884	8q21.13	8q21.2
LU12_L	3	1	1	82,381,765	92,662,643	1p31.1	1p22.1
LU20_AD	3	10	10	82,384,848	82,415,414	10q23.1	10q23.1
LU12_L	7	1	1	82,393,596	86,184,874	1p31.1	1p22.3
LU20_AD	3	10	10	82,415,414	82,384,848	10q23.1	10q23.1
LU18_AD	5	10	10	82,417,364	82,453,528	10q23.1	10q23.1
LU12_L	6	1	1	82,427,145	73,295,143	1p31.1	1p31.1
LU12_L	7	1	1	82,432,110	86,876,268	1p31.1	1p22.3
LU12_L	5	1	1	82,434,803	86,832,670	1p31.1	1p22.3
LU18_AD	5	10	10	82,453,528	82,417,364	10q23.1	10q23.1
LU21_L	3	6	6	82,456,832	82,494,469	6q14.1	6q14.1
LU3_L	6	5	5	82,474,606	82,505,892	5q14.2	5q14.2
LU21_L	3	6	6	82,494,469	82,456,832	6q14.1	6q14.1
LU3_L	6	5	5	82,505,892	82,474,606	5q14.2	5q14.2
LU12_L	8	1	1	82,523,141	77,888,477	1p31.1	1p31.1
LU12_L	3	1	1	82,523,932	81,809,485	1p31.1	1p31.1
LU7_L	3	1	4	82,538,617	24,505,368	1p31.1	4p15.2
LU12_L	8	1	1	82,540,982	85,632,961	1p31.1	1p22.3
LU12_L	5	1	1	82,544,999	88,250,582	1p31.1	1p22.3
LU12_L	4	1	1	82,545,627	88,078,128	1p31.1	1p22.3
LU12_L	5	1	1	82,547,815	96,072,363	1p31.1	1p21.3
LU4_AD	9	10	1	82,633,841	209,884,150	10q23.1	1q32.2
LU12_L	10	1	1	82,705,450	85,310,425	1p31.1	1p22.3
LU12_L	6	1	1	82,708,957	83,974,647	1p31.1	1p31.1
LU15_L	4	3	3	82,710,337	82,967,796	3p12.2	3p12.2
LU12_L	7	1	1	82,711,836	86,184,593	1p31.1	1p22.3
LU8_L	3	15	15	82,742,974	102,280,323	15q25.2	15q26.3
LU12_L	6	1	1	82,761,480	86,672,133	1p31.1	1p22.3
LU12_L	7	1	1	82,836,857	102,714,285	1p31.1	1p21.1
LU12_L	3	1	1	82,853,784	99,398,405	1p31.1	1p21.3
LU20_AD	3	2	2	82,935,820	82,981,146	2p12	2p12
LU15_L	4	3	3	82,967,796	82,710,337	3p12.2	3p12.2
LU20_AD	3	2	2	82,981,146	82,935,820	2p12	2p12

LU18_AD	4	23	8	83,003,971	73,957,654	Xq21.1	8q21.11
LU11_AD	3	15	15	83,006,131	85,795,029	15q25.2	15q25.3
LU12_L	15	1	1	83,012,677	79,420,314	1p31.1	1p31.1
LU12_L	6	1	1	83,050,494	86,080,988	1p31.1	1p22.3
LU12_L	5	1	1	83,052,625	97,937,235	1p31.1	1p21.3
LU12_L	9	1	1	83,053,372	100,532,502	1p31.1	1p21.2
LU12_L	13	1	1	83,065,448	85,966,313	1p31.1	1p22.3
LU5_L	3	2	6	83,087,021	31,331,247	2p12	6p21.33
LU11_AD	3	2	6	83,088,198	31,331,370	2p12	6p21.33
LU18_AD	4	11	19	83,131,151	35,005,857	11q14.1	19q13.11
LU21_AD	3	11	15	83,142,483	87,588,710	11q14.1	15q25.3
LU12_L	17	1	1	83,183,411	107,966,675	1p31.1	1p13.3
LU18_L	4	8	11	83,282,360	43,169,494	8q21.13	11p12
LU12_L	5	1	1	83,292,146	81,771,775	1p31.1	1p31.1
LU12_L	6	1	1	83,293,051	85,047,954	1p31.1	1p22.3
LU12_L	13	1	1	83,297,365	74,292,500	1p31.1	1p31.1
LU12_L	7	1	1	83,303,536	96,754,665	1p31.1	1p21.3
LU12_L	4	1	1	83,304,450	95,396,579	1p31.1	1p21.3
LU4_L	3	12	12	83,308,061	83,339,443	12q21.31	12q21.31
LU4_L	3	12	12	83,339,443	83,308,061	12q21.31	12q21.31
LU12_L	6	1	1	83,348,041	106,034,413	1p31.1	1p21.1
LU11_AD	26	12	18	83,356,733	36,578,560	12q21.31	18q12.2
LU12_L	3	1	1	83,365,337	82,269,393	1p31.1	1p31.1
LU12_L	4	1	1	83,378,519	74,564,523	1p31.1	1p31.1
LU12_L	5	1	1	83,418,395	91,344,151	1p31.1	1p22.2
LU18_AD	4	1	1	83,421,971	48,680,912	1p31.1	1p33
LU3_L	3	6	6	83,424,431	45,240,043	6q14.1	6p21.1
LU12_L	7	1	1	83,429,097	84,592,902	1p31.1	1p31.1
LU12_L	10	1	1	83,432,433	83,617,821	1p31.1	1p31.1
LU12_L	5	1	7	83,435,575	76,211,767	1p31.1	7q11.23
LU12_L	9	1	1	83,440,557	109,539,020	1p31.1	1p13.3
LU12_L	8	1	1	83,442,959	82,284,799	1p31.1	1p31.1
LU3_L	4	9	24	83,465,388	13,282,103	9q21.31	Yq11.1
LU11_AD	4	10	10	83,490,345	85,192,686	10q23.1	10q23.1
LU16_L	3	12	12	83,503,265	83,553,836	12q21.31	12q21.31
LU12_L	16	1	1	83,513,805	87,621,858	1p31.1	1p22.3
LU12_L	9	1	1	83,530,179	82,265,679	1p31.1	1p31.1
LU16_L	3	12	12	83,553,836	83,503,265	12q21.31	12q21.31
LU12_L	8	1	1	83,575,486	106,431,059	1p31.1	1p21.1
LU12_L	10	1	1	83,617,821	83,432,433	1p31.1	1p31.1
LU12_L	5	1	1	83,651,949	86,400,023	1p31.1	1p22.3
LU3_L	4	4	4	83,667,088	83,698,938	4q21.22	4q21.22
LU3_L	4	4	4	83,698,938	83,667,088	4q21.22	4q21.22
LU12_L	7	1	1	83,727,829	82,240,320	1p31.1	1p31.1

LU3_L	3	14	14	83,750,885	83,782,868	14q31.2	14q31.2
LU12_L	5	1	1	83,758,437	106,075,499	1p31.1	1p21.1
LU12_L	11	1	1	83,779,770	84,630,267	1p31.1	1p31.1
LU3_L	3	14	14	83,782,868	83,750,885	14q31.2	14q31.2
LU11_AD	65	12	12	83,819,457	69,650,106	12q21.31	12q15
LU11_AD	58	12	12	83,847,644	69,743,786	12q21.31	12q15
LU11_AD	7	12	7	83,847,797	35,147,438	12q21.31	7p14.2
LU11_AD	5	12	7	83,847,840	102,841,814	12q21.31	7q22.1
LU11_AD	23	12	12	83,848,726	63,977,662	12q21.31	12q14.2
LU11_L	5	12	12	83,853,840	69,743,342	12q21.31	12q15
LU12_L	11	1	1	83,865,613	109,728,562	1p31.1	1p13.3
LU18_AD	3	1	1	83,866,333	83,902,100	1p31.1	1p31.1
LU20_AD	4	9	9	83,901,514	83,971,064	9q21.31	9q21.31
LU18_AD	3	1	1	83,902,100	83,866,333	1p31.1	1p31.1
LU12_L	9	1	1	83,962,954	102,238,047	1p31.1	1p21.1
LU14_L	3	15	15	83,969,022	84,002,774	15q25.2	15q25.2
LU20_AD	4	9	9	83,971,064	83,901,514	9q21.31	9q21.31
LU12_L	6	1	1	83,974,647	82,708,957	1p31.1	1p31.1
LU14_L	3	15	15	84,002,774	83,969,022	15q25.2	15q25.2
LU3_L	3	1	1	84,003,764	84,042,088	1p31.1	1p31.1
LU12_L	4	1	1	84,014,118	84,614,463	1p31.1	1p31.1
LU12_L	15	1	1	84,020,197	100,672,161	1p31.1	1p21.2
LU12_L	6	1	1	84,022,280	105,656,494	1p31.1	1p21.1
LU12_L	21	1	1	84,029,131	106,370,331	1p31.1	1p21.1
LU12_L	3	1	1	84,035,571	84,068,417	1p31.1	1p31.1
LU12_L	6	1	1	84,037,068	97,592,137	1p31.1	1p21.3
LU12_L	13	1	1	84,037,861	109,201,996	1p31.1	1p13.3
LU3_L	3	1	1	84,042,088	84,003,764	1p31.1	1p31.1
LU12_L	3	1	1	84,068,417	84,035,571	1p31.1	1p31.1
LU12_L	3	6	5	84,069,994	127,010,127	6q14.2	5q23.2
LU4_AD	5	6	18	84,155,026	4,683,590	6q14.2	18p11.31
LU12_L	8	1	1	84,253,030	101,177,916	1p31.1	1p21.2
LU12_L	14	1	1	84,283,561	84,331,625	1p31.1	1p31.1
LU4_AD	11	23	23	84,318,217	88,348,422	Xq21.1	Xq21.31
LU12_L	14	1	1	84,331,625	84,283,561	1p31.1	1p31.1
LU12_L	5	1	1	84,351,930	92,152,285	1p31.1	1p22.1
LU4_AD	7	23	5	84,386,059	173,027,818	Xq21.1	5q35.2
LU4_AD	10	23	7	84,393,892	2,209,919	Xq21.1	7p22.3
LU16_AD	9	12	14	84,394,527	31,560,286	12q21.31	14q12
LU12_L	5	1	1	84,423,460	84,894,691	1p31.1	1p31.1
LU3_L	5	8	8	84,451,265	84,480,977	8q21.13	8q21.13
LU3_L	4	6	2	84,458,690	23,954,314	6q14.2	2p24.1
LU3_L	5	8	8	84,480,977	84,451,265	8q21.13	8q21.13
LU12_L	10	1	1	84,586,483	97,572,973	1p31.1	1p21.3

LU11_AD	3	10	10	84,592,212	84,622,380	10q23.1	10q23.1
LU12_L	7	1	1	84,592,902	83,429,097	1p31.1	1p31.1
LU12_L	10	1	1	84,599,821	85,114,909	1p31.1	1p22.3
LU12_L	4	1	1	84,614,463	84,014,118	1p31.1	1p31.1
LU11_AD	3	10	10	84,622,380	84,592,212	10q23.1	10q23.1
LU12_L	11	1	1	84,630,267	83,779,770	1p31.1	1p31.1
LU3_AD	3	11	11	84,632,093	84,668,826	11q14.1	11q14.1
LU12_L	6	1	1	84,642,678	74,222,049	1p31.1	1p31.1
LU12_L	3	1	1	84,647,131	106,256,498	1p31.1	1p21.1
LU3_AD	3	11	11	84,668,826	84,632,093	11q14.1	11q14.1
LU3_L	4	2	4	84,694,611	88,324,874	2p11.2	4q22.1
LU21_AD	3	2	2	84,702,441	150,179,395	2p11.2	2q23.2
LU5_AD	3	4	4	84,776,371	84,808,426	4q21.23	4q21.23
LU5_AD	3	4	4	84,808,426	84,776,371	4q21.23	4q21.23
LU12_L	7	1	1	84,816,263	105,439,476	1p31.1	1p21.1
LU12_L	3	1	1	84,819,840	74,548,986	1p31.1	1p31.1
LU20_L	4	15	15	84,861,947	78,191,578	15q25.2	15q24.3
LU18_AD	3	8	8	84,871,704	84,902,536	8q21.2	8q21.2
LU12_L	10	1	1	84,878,801	81,068,929	1p31.1	1p31.1
LU21_AD	3	4	2	84,885,154	36,013,707	4q21.23	2p22.3
LU12_L	5	1	1	84,894,691	84,423,460	1p31.1	1p31.1
LU18_AD	3	8	8	84,902,536	84,871,704	8q21.2	8q21.2
LU12_L	9	16	16	84,907,115	84,812,202	16q24.1	16q24.1
LU12_AD	15	16	16	84,909,599	84,807,021	16q24.1	16q24.1
LU12_L	5	4	6	84,912,607	70,602,824	4q21.23	6q13
LU3_AD	3	15	24	84,920,838	27,577,456	15q25.2	Yq11.23
LU3_AD	3	10	10	84,926,564	84,963,390	10q23.1	10q23.1
LU3_AD	3	10	10	84,963,390	84,926,564	10q23.1	10q23.1
LU12_L	8	1	1	85,006,935	82,070,839	1p22.3	1p31.1
LU12_L	6	1	1	85,047,875	106,501,351	1p22.3	1p21.1
LU12_L	6	1	1	85,047,954	83,293,051	1p22.3	1p31.1
LU12_L	8	1	1	85,051,791	107,049,002	1p22.3	1p21.1
LU12_L	8	1	1	85,088,972	82,165,879	1p22.3	1p31.1
LU12_L	10	1	1	85,114,909	84,599,821	1p22.3	1p31.1
LU12_L	5	1	1	85,152,474	95,799,192	1p22.3	1p21.3
LU12_L	13	1	1	85,165,123	106,048,576	1p22.3	1p21.1
LU4_AD	18	23	5	85,166,559	164,069,743	Xq21.2	5q34
LU18_AD	3	4	8	85,178,944	90,107,740	4q21.23	8q21.3
LU12_L	4	12	12	85,190,113	59,246,818	12q21.31	12q14.1
LU11_AD	4	10	10	85,192,686	83,490,345	10q23.1	10q23.1
LU12_L	8	1	1	85,229,823	97,365,842	1p22.3	1p21.3
LU12_L	15	1	1	85,235,952	86,705,050	1p22.3	1p22.3
LU12_L	5	1	1	85,289,944	97,592,930	1p22.3	1p21.3
LU12_L	9	1	1	85,292,532	103,112,735	1p22.3	1p21.1

LU3_AD	5	10	10	85,297,173	85,327,915	10q23.1	10q23.1
LU12_L	4	1	1	85,302,551	93,698,765	1p22.3	1p22.1
LU12_L	10	1	1	85,310,425	82,705,450	1p22.3	1p31.1
LU12_L	7	1	1	85,313,290	85,367,210	1p22.3	1p22.3
LU12_L	9	1	1	85,314,986	95,813,077	1p22.3	1p21.3
LU3_L	3	11	5	85,321,194	42,109,111	11q14.1	5p13.1
LU21_L	4	11	5	85,323,933	96,649,233	11q14.1	5q15
LU3_AD	5	10	10	85,327,915	85,297,173	10q23.1	10q23.1
LU12_L	9	1	1	85,344,090	107,766,523	1p22.3	1p13.3
LU12_L	6	1	1	85,362,775	80,735,643	1p22.3	1p31.1
LU12_L	7	1	1	85,367,210	85,313,290	1p22.3	1p22.3
LU12_AD	3	6	1	85,417,944	205,836,678	6q14.3	1q32.1
LU21_AD	4	6	5	85,425,579	59,958,936	6q14.3	5q12.1
LU7_AD	3	6	5	85,429,073	59,955,703	6q14.3	5q12.1
LU12_L	3	1	1	85,442,939	97,127,407	1p22.3	1p21.3
LU12_AD	3	11	11	85,470,819	85,540,841	11q14.1	11q14.1
LU12_L	3	1	1	85,482,628	93,646,557	1p22.3	1p22.1
LU12_L	8	1	1	85,514,208	82,058,976	1p22.3	1p31.1
LU12_L	9	1	1	85,528,983	73,712,191	1p22.3	1p31.1
LU12_AD	3	11	11	85,540,841	85,470,819	11q14.1	11q14.1
LU12_L	5	1	1	85,597,532	94,284,389	1p22.3	1p22.1
LU12_L	8	1	1	85,632,961	82,540,982	1p22.3	1p31.1
LU12_L	8	1	1	85,637,603	108,559,142	1p22.3	1p13.3
LU12_L	4	1	1	85,638,797	88,672,603	1p22.3	1p22.2
LU18_L	6	6	19	85,677,918	11,991,153	6q14.3	19p13.2
LU12_L	12	1	1	85,714,808	73,715,449	1p22.3	1p31.1
LU15_L	3	15	15	85,722,255	75,541,980	15q25.3	15q24.2
LU3_L	3	10	4	85,727,092	175,901,933	10q23.1	4q34.1
LU18_AD	3	10	12	85,730,935	64,731,725	10q23.1	12q14.2
LU4_AD	11	1	1	85,744,999	90,497,427	1p22.3	1p22.2
LU11_AD	3	15	15	85,795,029	83,006,131	15q25.3	15q25.2
LU4_AD	3	6	9	85,802,725	88,766,038	6q14.3	9q21.33
LU12_L	4	1	1	85,811,605	106,912,270	1p22.3	1p21.1
LU12_L	13	1	1	85,815,737	74,489,027	1p22.3	1p31.1
LU4_AD	3	23	23	85,823,196	85,860,047	Xq21.2	Xq21.2
LU12_L	5	1	1	85,824,935	76,369,184	1p22.3	1p31.1
LU12_L	8	1	1	85,825,811	76,784,647	1p22.3	1p31.1
LU12_L	8	1	1	85,858,933	86,433,272	1p22.3	1p22.3
LU4_AD	3	23	23	85,860,047	85,823,196	Xq21.2	Xq21.2
LU12_L	8	1	1	85,863,206	87,791,507	1p22.3	1p22.3
LU12_L	11	1	1	85,933,855	93,577,704	1p22.3	1p22.1
LU4_AD	4	10	1	85,935,860	227,307,647	10q23.1	1q42.13
LU4_L	7	10	1	85,937,655	227,305,832	10q23.1	1q42.13
LU12_L	6	1	1	85,940,890	80,343,771	1p22.3	1p31.1

LU12_L	4	1	1	85,965,460	95,233,937	1p22.3	1p21.3
LU12_L	13	1	1	85,966,313	83,065,448	1p22.3	1p31.1
LU12_L	6	1	1	85,974,772	81,905,557	1p22.3	1p31.1
LU18_L	3	4	4	85,983,344	86,027,607	4q21.23	4q21.23
LU12_L	5	1	1	86,000,545	87,340,270	1p22.3	1p22.3
LU18_L	3	4	4	86,027,607	85,983,344	4q21.23	4q21.23
LU4_AD	6	23	7	86,034,537	3,123,033	Xq21.2	7p22.2
LU4_AD	7	23	7	86,037,384	10,978,318	Xq21.2	7p21.3
LU15_L	6	3	3	86,062,167	88,043,888	3p12.1	3p11.1
LU12_L	8	1	1	86,063,608	95,131,178	1p22.3	1p21.3
LU12_L	6	1	1	86,080,988	83,050,494	1p22.3	1p31.1
LU15_L	12	3	3	86,112,260	87,045,787	3p12.1	3p12.1
LU12_L	5	1	1	86,160,518	92,743,117	1p22.3	1p22.1
LU12_L	16	1	1	86,169,929	87,053,155	1p22.3	1p22.3
LU12_L	5	1	1	86,174,584	88,919,507	1p22.3	1p22.2
LU12_L	7	1	1	86,184,593	82,711,836	1p22.3	1p31.1
LU12_L	7	1	1	86,184,874	82,393,596	1p22.3	1p31.1
LU18_L	3	10	10	86,214,260	86,244,770	10q23.1	10q23.1
LU12_L	9	1	1	86,227,116	86,435,775	1p22.3	1p22.3
LU18_L	3	10	10	86,244,770	86,214,260	10q23.1	10q23.1
LU14_L	3	4	4	86,356,608	165,104,071	4q21.23	4q32.3
LU16_L	3	12	7	86,373,487	16,919,058	12q21.31	7p21.1
LU3_L	3	14	12	86,391,087	105,997,191	14q31.3	12q23.3
LU12_L	5	1	1	86,400,023	83,651,949	1p22.3	1p31.1
LU12_L	15	1	1	86,402,029	90,300,209	1p22.3	1p22.2
LU12_L	3	1	1	86,406,632	103,085,760	1p22.3	1p21.1
LU12_L	4	1	1	86,412,851	97,488,879	1p22.3	1p21.3
LU12_L	8	1	1	86,433,272	85,858,933	1p22.3	1p22.3
LU12_L	9	1	1	86,435,775	86,227,116	1p22.3	1p22.3
LU21_AD	13	14	14	86,453,663	86,489,857	14q31.3	14q31.3
LU21_AD	13	14	14	86,489,857	86,453,663	14q31.3	14q31.3
LU4_L	6	1	1	86,518,388	119,955,980	1p22.3	1p12
LU4_AD	14	1	1	86,519,424	119,954,506	1p22.3	1p12
LU12_L	3	1	1	86,520,747	97,462,196	1p22.3	1p21.3
LU12_L	4	11	3	86,547,726	27,046,317	11q14.2	3p24.1
LU3_AD	7	8	8	86,554,884	82,370,615	8q21.2	8q21.13
LU12_L	8	1	1	86,567,699	90,297,420	1p22.3	1p22.2
LU12_L	6	1	1	86,575,140	79,667,372	1p22.3	1p31.1
LU16_L	3	3	18	86,586,262	71,965,966	3p12.1	18q22.3
LU12_L	9	1	1	86,590,179	107,552,149	1p22.3	1p13.3
LU12_L	8	1	1	86,610,441	81,266,551	1p22.3	1p31.1
LU12_L	11	1	1	86,650,580	97,392,347	1p22.3	1p21.3
LU12_L	15	1	1	86,668,344	75,669,913	1p22.3	1p31.1
LU12_L	6	1	1	86,672,133	82,761,480	1p22.3	1p31.1

LU12_L	7	1	1	86,683,488	106,452,938	1p22.3	1p21.1
LU12_L	12	1	1	86,700,539	100,100,155	1p22.3	1p21.2
LU12_L	15	1	1	86,705,050	85,235,952	1p22.3	1p22.3
LU14_L	3	12	12	86,706,427	86,736,565	12q21.32	12q21.32
LU12_L	5	1	1	86,726,659	93,496,158	1p22.3	1p22.1
LU14_L	3	12	12	86,736,565	86,706,427	12q21.32	12q21.32
LU3_L	6	16	4	86,771,328	104,475,260	16q24.1	4q24
LU4_AD	3	5	19	86,806,724	9,824,058	5q14.3	19p13.2
LU12_L	6	1	1	86,810,600	90,039,604	1p22.3	1p22.2
LU12_L	5	1	1	86,832,670	82,434,803	1p22.3	1p31.1
LU12_L	5	1	1	86,835,670	92,665,472	1p22.3	1p22.1
LU12_L	3	1	1	86,841,236	105,762,482	1p22.3	1p21.1
LU12_L	15	1	1	86,842,116	95,524,191	1p22.3	1p21.3
LU12_L	9	1	1	86,853,860	108,747,688	1p22.3	1p13.3
LU3_L	5	15	15	86,869,669	86,900,631	15q25.3	15q25.3
LU12_L	7	1	1	86,876,268	82,432,110	1p22.3	1p31.1
LU12_L	13	1	1	86,878,048	74,684,786	1p22.3	1p31.1
LU12_L	9	1	1	86,888,295	76,233,362	1p22.3	1p31.1
LU12_L	8	1	1	86,897,927	92,716,062	1p22.3	1p22.1
LU3_L	5	15	15	86,900,631	86,869,669	15q25.3	15q25.3
LU12_L	27	1	1	86,921,071	74,860,023	1p22.3	1p31.1
LU18_L	4	10	3	86,946,182	30,319,711	10q23.1	3p24.1
LU4_AD	3	2	2	86,956,880	87,268,435	2p11.2	2p11.2
LU12_L	5	1	1	86,983,571	95,451,406	1p22.3	1p21.3
LU12_L	3	1	1	86,997,896	96,016,588	1p22.3	1p21.3
LU12_L	3	1	1	87,033,447	102,850,678	1p22.3	1p21.1
LU15_L	12	3	3	87,045,787	86,112,260	3p12.1	3p12.1
LU12_L	18	1	1	87,046,287	75,439,628	1p22.3	1p31.1
LU12_L	15	1	1	87,049,311	93,090,044	1p22.3	1p22.1
LU12_L	10	1	1	87,049,729	107,919,016	1p22.3	1p13.3
LU12_L	16	1	1	87,053,155	86,169,929	1p22.3	1p22.3
LU18_AD	3	9	9	87,105,083	87,140,330	9q21.33	9q21.33
LU12_L	5	1	1	87,106,806	106,904,374	1p22.3	1p21.1
LU18_AD	3	9	9	87,140,330	87,105,083	9q21.33	9q21.33
LU18_L	5	2	2	87,149,894	87,352,032	2p11.2	2p11.2
LU3_L	4	6	3	87,184,203	146,127,945	6q14.3	3q24
LU21_L	5	6	3	87,184,937	164,056,874	6q14.3	3q26.1
LU12_L	3	6	5	87,185,142	95,047,175	6q14.3	5q15
LU5_L	3	14	14	87,214,514	87,245,219	14q31.3	14q31.3
LU5_L	3	14	14	87,245,219	87,214,514	14q31.3	14q31.3
LU4_AD	3	2	2	87,268,435	86,956,880	2p11.2	2p11.2
LU21_AD	3	1	18	87,271,712	5,085,905	1p22.3	18p11.31
LU12_L	4	1	4	87,273,944	103,155,848	1p22.3	4q24
LU12_L	5	1	1	87,340,270	86,000,545	1p22.3	1p22.3

LU12_L	9	1	1	87,347,258	97,311,426	1p22.3	1p21.3
LU18_L	5	2	2	87,352,032	87,149,894	2p11.2	2p11.2
LU20_AD	5	14	14	87,383,338	87,424,009	14q31.3	14q31.3
LU18_AD	4	4	7	87,385,903	151,738,954	4q21.3	7q36.1
LU16_AD	3	6	1	87,386,399	161,225,913	6q14.3	1q23.3
LU12_L	11	1	1	87,387,517	92,798,811	1p22.3	1p22.1
LU14_L	4	6	6	87,389,051	19,274,995	6q14.3	6p22.3
LU12_L	5	1	1	87,404,063	80,533,477	1p22.3	1p31.1
LU12_L	15	1	1	87,421,783	76,531,877	1p22.3	1p31.1
LU20_AD	5	14	14	87,424,009	87,383,338	14q31.3	14q31.3
LU12_L	7	1	1	87,448,439	106,032,382	1p22.3	1p21.1
LU12_L	5	1	1	87,451,664	99,717,231	1p22.3	1p21.2
LU12_L	6	1	1	87,459,026	80,537,825	1p22.3	1p31.1
LU11_AD	4	8	3	87,477,304	98,379,158	8q21.3	3q12.1
LU6_L	6	14	14	87,483,338	87,514,565	14q31.3	14q31.3
LU6_L	6	14	14	87,514,565	87,483,338	14q31.3	14q31.3
LU21_AD	3	15	11	87,588,710	83,142,483	15q25.3	11q14.1
LU12_L	8	1	1	87,588,966	92,667,108	1p22.3	1p22.1
LU12_L	9	1	1	87,595,592	81,258,296	1p22.3	1p31.1
LU12_L	16	1	1	87,621,858	83,513,805	1p22.3	1p31.1
LU12_L	11	1	1	87,626,913	106,526,925	1p22.3	1p21.1
LU12_L	19	1	1	87,641,546	99,172,435	1p22.3	1p21.3
LU12_L	7	1	1	87,642,293	105,466,361	1p22.3	1p21.1
LU12_L	11	1	1	87,648,153	82,339,315	1p22.3	1p31.1
LU12_L	11	1	1	87,653,237	103,365,002	1p22.3	1p21.1
LU12_L	10	1	1	87,661,203	76,430,394	1p22.3	1p31.1
LU12_L	15	1	1	87,724,065	109,389,522	1p22.3	1p13.3
LU12_L	12	1	1	87,728,827	76,400,821	1p22.3	1p31.1
LU12_L	10	1	1	87,730,896	80,702,345	1p22.3	1p31.1
LU7_AD	3	3	12	87,783,462	68,944,686	3p11.2	12q15
LU14_L	3	3	11	87,788,597	101,117,062	3p11.2	11q22.1
LU12_L	8	1	1	87,791,507	85,863,206	1p22.3	1p22.3
LU12_L	14	1	1	87,801,201	94,331,928	1p22.3	1p22.1
LU21_AD	4	8	24	87,941,013	16,273,074	8q21.3	Yq11.221
LU7_AD	3	6	6	88,023,455	88,053,181	6q15	6q15
LU15_L	6	3	3	88,043,888	86,062,167	3p11.1	3p12.1
LU15_L	3	3	3	88,045,558	88,491,119	3p11.1	3p11.1
LU7_AD	3	6	6	88,053,181	88,023,455	6q15	6q15
LU12_L	4	1	1	88,054,332	91,854,244	1p22.3	1p22.2
LU12_L	7	1	1	88,078,081	88,250,291	1p22.3	1p22.3
LU12_L	4	1	1	88,078,128	82,545,627	1p22.3	1p31.1
LU7_AD	4	2	2	88,082,236	113,142,708	2p11.2	2q13
LU12_L	5	1	1	88,100,444	99,926,694	1p22.3	1p21.2
LU3_AD	3	2	2	88,103,124	88,269,206	2p11.2	2p11.2

LU12_L	4	1	1	88,104,420	104,236,482	1p22.3	1p21.1
LU5_AD	3	7	7	88,125,920	88,164,190	7q21.12	7q21.12
LU3_L	3	7	7	88,132,835	88,162,957	7q21.12	7q21.12
LU3_L	3	7	7	88,162,957	88,132,835	7q21.12	7q21.12
LU5_AD	3	7	7	88,164,190	88,125,920	7q21.12	7q21.12
LU12_L	8	1	1	88,172,263	100,307,973	1p22.3	1p21.2
LU12_L	9	1	1	88,181,342	109,063,732	1p22.3	1p13.3
LU12_L	18	1	1	88,188,686	77,405,378	1p22.3	1p31.1
LU12_L	9	1	1	88,196,349	100,060,313	1p22.3	1p21.2
LU12_L	7	1	1	88,250,291	88,078,081	1p22.3	1p22.3
LU12_L	5	1	1	88,250,582	82,544,999	1p22.3	1p31.1
LU3_AD	3	2	2	88,269,206	88,103,124	2p11.2	2p11.2
LU3_AD	3	14	23	88,276,305	94,717,265	14q31.3	Xq21.33
LU20_AD	3	15	15	88,277,907	88,312,667	15q25.3	15q25.3
LU20_AD	3	15	15	88,312,667	88,277,907	15q25.3	15q25.3
LU3_L	4	4	2	88,324,874	84,694,611	4q22.1	2p11.2
LU3_L	3	5	5	88,327,439	88,359,698	5q14.3	5q14.3
LU4_AD	11	23	23	88,348,422	84,318,217	Xq21.31	Xq21.1
LU3_L	3	5	5	88,359,698	88,327,439	5q14.3	5q14.3
LU4_AD	12	23	5	88,403,372	173,026,999	Xq21.31	5q35.2
LU5_AD	4	7	7	88,404,226	88,435,308	7q21.13	7q21.13
LU5_AD	4	7	7	88,435,308	88,404,226	7q21.13	7q21.13
LU4_AD	12	23	23	88,459,597	90,861,986	Xq21.31	Xq21.31
LU12_L	13	1	1	88,459,805	95,156,569	1p22.2	1p21.3
LU12_L	10	1	1	88,462,067	88,919,880	1p22.2	1p22.2
LU15_L	3	3	3	88,491,119	88,045,558	3p11.1	3p11.1
LU12_L	4	1	1	88,491,689	94,340,113	1p22.2	1p22.1
LU16_L	4	9	7	88,497,788	92,113,867	9q21.33	7q21.2
LU12_L	11	1	1	88,504,151	89,217,149	1p22.2	1p22.2
LU12_L	9	1	1	88,504,721	109,820,768	1p22.2	1p13.3
LU12_L	4	1	1	88,517,463	88,648,145	1p22.2	1p22.2
LU12_L	8	1	1	88,521,631	94,503,937	1p22.2	1p22.1
LU12_L	11	1	1	88,578,186	77,135,125	1p22.2	1p31.1
LU18_AD	11	5	5	88,580,309	39,136,118	5q14.3	5p13.1
LU18_L	12	5	5	88,580,629	39,136,522	5q14.3	5p13.1
LU12_L	4	1	1	88,604,121	78,471,716	1p22.2	1p31.1
LU12_L	10	1	1	88,607,029	109,543,641	1p22.2	1p13.3
LU12_L	5	1	1	88,618,890	89,219,543	1p22.2	1p22.2
LU8_L	6	12	11	88,622,590	93,601,689	12q21.32	11q21
LU12_L	6	1	1	88,629,588	101,060,876	1p22.2	1p21.2
LU12_L	7	1	1	88,632,946	101,101,508	1p22.2	1p21.2
LU12_L	4	1	1	88,648,145	88,517,463	1p22.2	1p22.2
LU12_L	8	1	1	88,670,170	88,885,879	1p22.2	1p22.2
LU12_L	9	1	1	88,672,285	108,558,982	1p22.2	1p13.3

LU12_L	4	1	1	88,672,603	85,638,797	1p22.2	1p22.3
LU12_L	13	1	1	88,759,809	97,093,527	1p22.2	1p21.3
LU4_AD	3	9	6	88,766,038	85,802,725	9q21.33	6q14.3
LU12_L	10	1	1	88,768,168	76,773,698	1p22.2	1p31.1
LU12_L	9	1	1	88,778,759	99,227,800	1p22.2	1p21.3
LU12_L	11	1	1	88,780,919	100,099,863	1p22.2	1p21.2
LU12_L	16	1	1	88,841,459	109,914,678	1p22.2	1p13.3
LU12_L	14	1	1	88,863,931	96,763,278	1p22.2	1p21.3
LU12_L	8	1	1	88,885,879	88,670,170	1p22.2	1p22.2
LU12_L	9	1	1	88,887,926	94,095,355	1p22.2	1p22.1
LU12_L	5	1	1	88,919,507	86,174,584	1p22.2	1p22.3
LU12_L	10	1	1	88,919,880	88,462,067	1p22.2	1p22.2
LU12_L	9	1	1	88,920,296	99,718,479	1p22.2	1p21.2
LU12_L	25	1	1	88,922,181	92,248,351	1p22.2	1p22.1
LU12_L	7	1	1	88,930,631	96,462,184	1p22.2	1p21.3
LU3_L	3	15	6	88,944,798	43,834,931	15q25.3	6p21.1
LU12_L	11	1	1	88,945,097	79,758,515	1p22.2	1p31.1
LU12_L	3	9	7	88,976,894	43,861,270	9q21.33	7p13
LU16_AD	4	9	23	88,981,902	148,904,012	9q21.33	Xq28
LU11_AD	3	10	9	88,987,027	99,694,456	10q23.2	9q22.33
LU18_AD	3	2	22	89,019,239	47,977,654	2p11.2	22q13.31
LU12_L	9	1	1	89,067,918	96,689,008	1p22.2	1p21.3
LU16_L	3	4	12	89,075,008	59,715,230	4q22.1	12q14.1
LU21_AD	3	15	3	89,082,619	75,556,639	15q25.3	3p12.3
LU12_L	5	1	1	89,094,369	101,547,067	1p22.2	1p21.2
LU12_L	6	1	1	89,097,312	109,726,256	1p22.2	1p13.3
LU12_L	13	1	1	89,101,227	81,243,595	1p22.2	1p31.1
LU12_L	4	1	1	89,105,491	96,902,785	1p22.2	1p21.3
LU12_L	5	1	1	89,119,378	78,042,079	1p22.2	1p31.1
LU12_L	8	1	1	89,129,692	101,328,506	1p22.2	1p21.2
LU12_L	8	1	1	89,172,338	101,357,944	1p22.2	1p21.2
LU12_L	11	1	1	89,217,149	88,504,151	1p22.2	1p22.2
LU12_L	5	1	1	89,219,543	88,618,890	1p22.2	1p22.2
LU12_L	5	1	1	89,222,868	89,392,400	1p22.2	1p22.2
LU12_L	10	1	1	89,224,547	76,879,407	1p22.2	1p31.1
LU8_L	3	7	9	89,257,340	35,460,836	7q21.13	9p13.3
LU5_L	3	7	7	89,287,497	89,323,457	7q21.13	7q21.13
LU5_L	3	7	7	89,323,457	89,287,497	7q21.13	7q21.13
LU21_AD	3	6	6	89,357,522	89,410,547	6q15	6q15
LU21_L	3	1	6	89,390,945	65,715,524	1p22.2	6q12
LU12_L	5	1	1	89,392,400	89,222,868	1p22.2	1p22.2
LU15_AD	3	1	23	89,393,875	115,875,205	1p22.2	Xq23
LU12_L	7	1	1	89,397,287	101,371,739	1p22.2	1p21.2
LU21_AD	3	6	6	89,410,547	89,357,522	6q15	6q15

LU18_AD	3	6	2	89,432,343	119,709,605	6q15	2q14.2
LU12_L	7	1	1	89,456,825	77,006,035	1p22.2	1p31.1
LU12_L	5	1	1	89,457,151	109,623,435	1p22.2	1p13.3
LU21_L	3	11	2	89,468,648	96,304,641	11q14.3	2q11.1
LU8_L	3	11	2	89,486,392	96,291,339	11q14.3	2q11.1
LU3_L	3	11	11	89,521,265	55,643,288	11q14.3	11q11
LU14_AD	5	11	11	89,545,729	89,693,436	11q14.3	11q14.3
LU6_L	40	9	26	89,614,765	9,239	9q21.33	26
LU6_AD	14	9	26	89,621,066	9,848	9q21.33	26
LU5_AD	3	3	4	89,635,972	156,379,079	3p11.1	4q32.1
LU12_L	3	11	3	89,673,387	8,742,055	11q14.3	3p25.3
LU18_L	3	1	2	89,693,029	10,070,063	1p22.2	2p25.1
LU14_AD	5	11	11	89,693,436	89,545,729	11q14.3	11q14.3
LU3_L	4	15	19	89,772,149	9,823,125	15q26.1	19p13.2
LU12_L	4	1	1	89,817,953	92,565,239	1p22.2	1p22.1
LU12_L	3	1	1	89,856,049	97,542,122	1p22.2	1p21.3
LU4_AD	5	11	2	89,880,955	92,013,965	11q14.3	2p11.1
LU12_L	3	11	2	89,881,675	92,013,357	11q14.3	2p11.1
LU12_L	9	1	1	89,885,846	97,093,462	1p22.2	1p21.3
LU6_L	4	4	4	89,886,733	89,920,848	4q22.1	4q22.1
LU6_L	4	4	4	89,920,848	89,886,733	4q22.1	4q22.1
LU4_L	3	23	23	89,947,886	89,980,720	Xq21.31	Xq21.31
LU12_L	3	1	1	89,963,531	92,467,193	1p22.2	1p22.1
LU12_L	6	1	1	89,972,490	78,493,070	1p22.2	1p31.1
LU4_L	3	23	23	89,980,720	89,947,886	Xq21.31	Xq21.31
LU12_L	3	1	1	89,991,502	109,044,836	1p22.2	1p13.3
LU12_L	4	1	1	89,992,016	92,596,942	1p22.2	1p22.1
LU12_L	5	1	1	89,994,133	81,255,086	1p22.2	1p31.1
LU12_L	10	1	1	89,996,438	77,480,430	1p22.2	1p31.1
LU12_L	7	1	1	90,024,007	102,078,885	1p22.2	1p21.2
LU12_L	6	1	1	90,039,604	86,810,600	1p22.2	1p22.3
LU18_AD	6	5	5	90,044,019	97,600,829	5q14.3	5q15
LU18_L	6	5	5	90,045,508	97,600,581	5q14.3	5q15
LU18_AD	3	8	4	90,107,740	85,178,944	8q21.3	4q21.23
LU8_AD	3	2	2	90,195,263	90,244,994	2p11.2	2p11.2
LU21_L	3	2	2	90,196,831	90,244,626	2p11.2	2p11.2
LU20_AD	5	10	10	90,198,937	90,231,341	10q23.31	10q23.31
LU20_AD	5	10	10	90,231,341	90,198,937	10q23.31	10q23.31
LU12_AD	3	16	10	90,235,286	38,738,599	16q24.3	10p11.1
LU21_L	3	2	2	90,244,626	90,196,831	2p11.2	2p11.2
LU8_AD	3	2	2	90,244,994	90,195,263	2p11.2	2p11.2
LU12_L	18	1	1	90,285,958	91,195,686	1p22.2	1p22.2
LU12_L	8	1	1	90,297,420	86,567,699	1p22.2	1p22.3
LU12_L	15	1	1	90,300,209	86,402,029	1p22.2	1p22.3

LU14_L	3	23	20	90,320,620	6,139,092	Xq21.31	20p12.3
LU3_AD	24	23	23	90,406,033	90,436,196	Xq21.31	Xq21.31
LU21_AD	3	2	17	90,406,320	21,547,266	2p11.2	17p11.2
LU3_L	16	23	23	90,406,757	90,437,158	Xq21.31	Xq21.31
LU18_L	4	9	4	90,429,012	139,979,643	9q22.1	4q31.1
LU3_AD	24	23	23	90,436,196	90,406,033	Xq21.31	Xq21.31
LU3_L	16	23	23	90,437,158	90,406,757	Xq21.31	Xq21.31
LU12_L	4	1	1	90,464,010	74,221,666	1p22.2	1p31.1
LU4_AD	11	1	1	90,497,427	85,744,999	1p22.2	1p22.3
LU12_L	10	1	1	90,537,257	75,914,637	1p22.2	1p31.1
LU12_L	3	1	1	90,712,846	93,075,849	1p22.2	1p22.1
LU12_L	11	1	1	90,729,745	96,160,530	1p22.2	1p21.3
LU3_AD	3	12	12	90,784,359	90,828,235	12q21.33	12q21.33
LU12_L	5	1	1	90,811,138	91,940,940	1p22.2	1p22.2
LU12_L	15	1	1	90,820,538	92,511,714	1p22.2	1p22.1
LU3_AD	3	12	12	90,828,235	90,784,359	12q21.33	12q21.33
LU12_L	3	1	1	90,833,523	91,030,577	1p22.2	1p22.2
LU12_L	10	1	1	90,842,396	108,916,991	1p22.2	1p13.3
LU16_AD	3	11	1	90,848,326	52,249,800	11q14.3	1p32.3
LU4_AD	12	23	23	90,861,986	88,459,597	Xq21.31	Xq21.31
LU4_AD	5	23	24	90,862,132	6,401,745	Xq21.31	Yp11.2
LU12_L	14	1	1	90,929,699	105,858,307	1p22.2	1p21.1
LU12_L	17	1	1	90,941,331	108,665,028	1p22.2	1p13.3
LU12_L	31	1	1	90,959,859	80,719,845	1p22.2	1p31.1
LU21_AD	5	4	4	90,989,640	61,541,030	4q22.1	4q13.1
LU12_L	11	1	1	91,006,857	79,746,172	1p22.2	1p31.1
LU12_L	14	1	1	91,025,743	99,468,842	1p22.2	1p21.3
LU12_L	3	1	1	91,030,577	90,833,523	1p22.2	1p22.2
LU12_L	7	1	1	91,040,716	93,836,055	1p22.2	1p22.1
LU14_L	3	7	5	91,081,231	114,333,254	7q21.13	5q22.3
LU3_AD	3	7	1	91,083,436	161,444,237	7q21.13	1q23.3
LU18_L	4	11	11	91,167,353	91,201,696	11q14.3	11q14.3
LU12_L	4	1	1	91,169,160	78,981,480	1p22.2	1p31.1
LU12_L	6	1	1	91,172,050	106,961,998	1p22.2	1p21.1
LU12_L	7	1	1	91,185,452	105,470,915	1p22.2	1p21.1
LU12_L	18	1	1	91,195,686	90,285,958	1p22.2	1p22.2
LU18_L	4	11	11	91,201,696	91,167,353	11q14.3	11q14.3
LU12_L	15	1	1	91,203,658	100,857,576	1p22.2	1p21.2
LU12_L	8	1	1	91,273,341	109,791,643	1p22.2	1p13.3
LU12_L	5	1	1	91,344,151	83,418,395	1p22.2	1p31.1
LU12_L	11	1	1	91,347,524	106,184,745	1p22.2	1p21.1
LU7_AD	8	8	7	91,451,851	40,736,377	8q21.3	7p14.1
LU7_L	6	8	7	91,452,664	40,737,341	8q21.3	7p14.1
LU12_L	10	1	1	91,469,017	91,642,895	1p22.2	1p22.2

LU12_L	10	1	1	91,477,340	91,625,305	1p22.2	1p22.2
LU18_L	4	7	8	91,586,150	95,802,166	7q21.2	8q22.1
LU7_L	5	1	1	91,602,221	101,917,227	1p22.2	1p21.2
LU12_L	7	1	1	91,621,349	102,722,512	1p22.2	1p21.1
LU12_L	10	1	1	91,625,305	91,477,340	1p22.2	1p22.2
LU12_L	7	1	1	91,628,562	79,864,700	1p22.2	1p31.1
LU12_L	20	1	1	91,628,715	101,472,114	1p22.2	1p21.2
LU12_L	5	1	1	91,629,321	105,065,791	1p22.2	1p21.1
LU12_L	18	1	1	91,636,872	74,251,737	1p22.2	1p31.1
LU4_AD	3	12	12	91,642,142	91,685,673	12q21.33	12q21.33
LU12_L	10	1	1	91,642,895	91,469,017	1p22.2	1p22.2
LU12_L	8	1	1	91,647,464	105,819,860	1p22.2	1p21.1
LU4_L	3	2	16	91,663,025	33,068,779	2p11.1	16p11.2
LU12_L	12	1	1	91,663,493	93,831,427	1p22.2	1p22.1
LU12_L	3	1	4	91,669,445	12,428,673	1p22.2	4p15.33
LU7_AD	3	1	9	91,673,855	35,453,431	1p22.2	9p13.3
LU4_AD	3	12	12	91,685,673	91,642,142	12q21.33	12q21.33
LU12_L	5	1	1	91,703,911	91,774,184	1p22.2	1p22.2
LU3_AD	4	6	19	91,711,932	58,158,665	6q15	19q13.43
LU12_L	14	1	1	91,731,086	106,900,685	1p22.2	1p21.1
LU4_L	3	10	4	91,752,114	45,032,643	10q23.31	4p12
LU12_L	4	1	1	91,768,455	91,818,405	1p22.2	1p22.2
LU12_L	5	1	1	91,774,184	91,703,911	1p22.2	1p22.2
LU12_L	4	1	1	91,818,405	91,768,455	1p22.2	1p22.2
LU12_L	8	1	1	91,846,544	79,380,664	1p22.2	1p31.1
LU8_L	5	2	2	91,850,861	133,109,614	2p11.1	2q21.2
LU12_L	4	1	1	91,854,244	88,054,332	1p22.2	1p22.3
LU21_L	6	2	4	91,854,945	4,311,051	2p11.1	4p16.3
LU14_L	4	23	6	91,855,810	102,898,143	Xq21.32	6q16.3
LU15_L	3	9	8	91,868,684	144,398,966	9q22.2	8q24.3
LU3_L	3	2	7	91,902,929	151,958,203	2p11.1	7q36.1
LU12_L	5	1	1	91,938,562	92,695,021	1p22.2	1p22.1
LU12_L	5	1	1	91,940,940	90,811,138	1p22.2	1p22.2
LU12_L	6	1	1	91,950,859	105,641,710	1p22.2	1p21.1
LU12_L	8	1	1	91,958,669	98,763,303	1p22.2	1p21.3
LU12_L	13	1	1	92,006,931	106,981,915	1p22.1	1p21.1
LU12_L	3	2	11	92,013,357	89,881,675	2p11.1	11q14.3
LU4_AD	5	2	11	92,013,965	89,880,955	2p11.1	11q14.3
LU12_L	17	1	1	92,029,126	108,644,060	1p22.1	1p13.3
LU3_L	3	4	6	92,099,055	165,877,442	4q22.1	6q27
LU12_L	4	4	4	92,099,636	45,049,137	4q22.1	4p12
LU16_L	4	7	9	92,113,867	88,497,788	7q21.2	9q21.33
LU21_L	3	1	8	92,128,182	56,618,994	1p22.1	8q12.1
LU12_L	5	1	1	92,152,285	84,351,930	1p22.1	1p31.1

LU12_L	7	1	1	92,154,149	104,088,432	1p22.1	1p21.1
LU12_L	11	1	1	92,240,848	80,811,971	1p22.1	1p31.1
LU12_L	8	1	1	92,244,847	102,333,633	1p22.1	1p21.1
LU12_L	18	1	1	92,248,262	79,740,820	1p22.1	1p31.1
LU12_L	25	1	1	92,248,351	88,922,181	1p22.1	1p22.2
LU21_L	4	4	1	92,276,048	206,283,385	4q22.1	1q32.1
LU12_L	7	1	1	92,361,131	78,637,968	1p22.1	1p31.1
LU5_L	4	14	12	92,434,297	106,565,692	14q32.12	12q23.3
LU12_L	3	1	1	92,467,193	89,963,531	1p22.1	1p22.2
LU18_AD	3	8	8	92,482,010	92,520,825	8q21.3	8q21.3
LU18_L	10	5	5	92,488,444	24,481,449	5q15	5p14.2
LU18_AD	7	5	5	92,489,178	24,483,106	5q15	5p14.2
LU12_L	15	1	1	92,511,714	90,820,538	1p22.1	1p22.2
LU18_AD	3	8	8	92,520,825	92,482,010	8q21.3	8q21.3
LU12_L	4	1	1	92,530,501	96,016,203	1p22.1	1p21.3
LU8_AD	3	4	5	92,546,431	97,412,977	4q22.1	5q15
LU12_L	9	1	1	92,561,748	78,494,694	1p22.1	1p31.1
LU12_L	4	1	1	92,565,239	89,817,953	1p22.1	1p22.2
LU16_L	3	10	6	92,565,791	131,617,404	10q23.31	6q23.2
LU12_L	3	1	1	92,568,285	105,132,408	1p22.1	1p21.1
LU12_L	4	1	1	92,596,942	89,992,016	1p22.1	1p22.2
LU12_L	7	1	1	92,607,992	92,845,091	1p22.1	1p22.1
LU18_L	4	4	5	92,618,075	1,580,785	4q22.1	5p15.33
LU18_AD	3	5	5	92,656,223	92,707,450	5q15	5q15
LU3_AD	3	5	5	92,661,597	92,696,158	5q15	5q15
LU12_L	3	1	1	92,662,643	82,381,765	1p22.1	1p31.1
LU12_L	5	1	1	92,665,472	86,835,670	1p22.1	1p22.3
LU12_L	8	1	1	92,667,108	87,588,966	1p22.1	1p22.3
LU18_L	5	11	2	92,674,334	171,472,714	11q14.3	2q31.1
LU12_L	11	1	1	92,684,712	92,776,904	1p22.1	1p22.1
LU8_L	4	23	2	92,693,562	232,271,009	Xq21.32	2q37.1
LU12_L	5	1	1	92,695,021	91,938,562	1p22.1	1p22.2
LU3_AD	3	5	5	92,696,158	92,661,597	5q15	5q15
LU18_AD	3	5	5	92,707,450	92,656,223	5q15	5q15
LU3_AD	5	5	5	92,708,938	92,742,386	5q15	5q15
LU12_L	8	1	1	92,716,062	86,897,927	1p22.1	1p22.3
LU3_AD	5	5	5	92,742,386	92,708,938	5q15	5q15
LU12_L	5	1	1	92,743,117	86,160,518	1p22.1	1p22.3
LU12_L	4	15	2	92,752,306	40,900,886	15q26.1	2p22.1
LU15_L	4	15	8	92,754,632	42,417,052	15q26.1	8p11.21
LU6_AD	4	1	11	92,755,794	19,055,859	1p22.1	11p15.1
LU12_L	11	1	1	92,776,904	92,684,712	1p22.1	1p22.1
LU4_AD	4	12	10	92,780,843	17,059,985	12q22	10p13
LU12_L	6	1	1	92,784,063	78,594,332	1p22.1	1p31.1

LU3_L	3	1	1	92,790,634	92,821,371	1p22.1	1p22.1
LU12_L	11	1	1	92,798,811	87,387,517	1p22.1	1p22.3
LU12_L	7	1	1	92,819,398	76,657,485	1p22.1	1p31.1
LU6_AD	3	1	11	92,821,218	6,076,676	1p22.1	11p15.4
LU3_L	3	1	1	92,821,371	92,790,634	1p22.1	1p22.1
LU12_L	5	1	1	92,829,034	109,704,969	1p22.1	1p13.3
LU4_AD	3	11	19	92,837,300	19,895,107	11q21	19p13.11
LU12_L	7	1	1	92,845,091	92,607,992	1p22.1	1p22.1
LU5_L	3	5	5	92,866,958	92,898,395	5q15	5q15
LU12_L	8	1	1	92,879,907	74,852,538	1p22.1	1p31.1
LU5_L	3	5	5	92,898,395	92,866,958	5q15	5q15
LU16_AD	5	7	1	92,899,713	51,514,525	7q21.3	1p32.3
LU18_L	5	4	5	92,906,210	133,013,631	4q22.1	5q31.1
LU12_L	5	1	1	92,939,797	105,131,659	1p22.1	1p21.1
LU12_L	9	1	1	92,948,027	78,540,634	1p22.1	1p31.1
LU21_L	3	4	6	92,965,289	2,314,700	4q22.1	6p25.2
LU5_L	3	11	14	92,996,807	49,024,812	11q21	14q21.3
LU12_L	4	1	1	93,018,401	101,178,573	1p22.1	1p21.2
LU8_L	4	6	22	93,043,667	32,508,079	6q15	22q12.3
LU3_L	3	6	22	93,044,187	32,507,495	6q15	22q12.3
LU20_AD	3	10	10	93,046,365	93,098,120	10q23.32	10q23.32
LU12_L	3	1	1	93,075,849	90,712,846	1p22.1	1p22.2
LU12_L	15	1	1	93,090,044	87,049,311	1p22.1	1p22.3
LU12_L	5	1	1	93,090,786	75,449,313	1p22.1	1p31.1
LU20_AD	3	10	10	93,098,120	93,046,365	10q23.32	10q23.32
LU12_L	6	8	8	93,118,212	104,710,516	8q21.3	8q22.3
LU3_AD	5	4	4	93,266,071	93,298,392	4q22.1	4q22.1
LU5_L	4	11	15	93,269,086	40,328,100	11q21	15q15.1
LU3_AD	5	4	4	93,298,392	93,266,071	4q22.1	4q22.1
LU18_L	6	11	11	93,308,177	6,177,785	11q21	11p15.4
LU12_L	10	1	1	93,379,387	75,225,543	1p22.1	1p31.1
LU12_L	7	1	1	93,488,994	82,128,745	1p22.1	1p31.1
LU12_L	5	1	1	93,496,158	86,726,659	1p22.1	1p22.3
LU12_L	9	1	1	93,502,296	95,816,856	1p22.1	1p21.3
LU18_AD	3	9	4	93,504,404	4,175,441	9q22.2	4p16.3
LU7_L	4	9	11	93,517,174	71,326,499	9q22.2	11q13.4
LU11_AD	3	9	4	93,517,987	9,512,034	9q22.2	4p16.1
LU20_AD	3	6	6	93,553,318	93,586,531	6q16.1	6q16.1
LU4_AD	3	12	12	93,571,712	93,604,354	12q22	12q22
LU12_L	4	1	1	93,576,738	82,065,382	1p22.1	1p31.1
LU12_L	11	1	1	93,577,704	85,933,855	1p22.1	1p22.3
LU20_AD	3	6	6	93,586,531	93,553,318	6q16.1	6q16.1
LU12_L	12	1	1	93,597,375	102,933,265	1p22.1	1p21.1
LU8_L	6	11	12	93,601,689	88,622,590	11q21	12q21.32

LU4_AD	3	12	12	93,604,354	93,571,712	12q22	12q22
LU12_L	11	1	1	93,642,323	106,299,328	1p22.1	1p21.1
LU12_L	3	1	1	93,646,557	85,482,628	1p22.1	1p22.3
LU12_L	16	1	1	93,675,610	104,108,639	1p22.1	1p21.1
LU14_AD	3	5	13	93,683,125	35,320,850	5q15	13q13.2
LU12_L	4	1	1	93,698,765	85,302,551	1p22.1	1p22.3
LU20_AD	4	13	11	93,746,063	43,177,546	13q31.3	11p12
LU12_L	5	1	1	93,747,296	100,671,986	1p22.1	1p21.2
LU18_AD	4	13	12	93,748,243	59,928,682	13q31.3	12q14.1
LU12_L	5	1	1	93,781,064	77,520,744	1p22.1	1p31.1
LU12_L	10	1	1	93,786,261	99,459,542	1p22.1	1p21.3
LU12_L	7	1	1	93,788,360	109,543,198	1p22.1	1p13.3
LU12_L	12	1	1	93,831,427	91,663,493	1p22.1	1p22.2
LU12_L	7	1	1	93,836,055	91,040,716	1p22.1	1p22.2
LU12_L	9	1	1	93,837,181	102,676,951	1p22.1	1p21.1
LU12_L	10	1	1	93,839,370	73,379,044	1p22.1	1p31.1
LU12_L	7	1	1	93,842,797	102,709,444	1p22.1	1p21.1
LU3_AD	3	11	23	93,850,323	105,427,426	11q21	Xq22.3
LU14_AD	4	11	2	93,855,994	135,564,007	11q21	2q21.3
LU12_L	12	1	1	93,880,801	75,617,661	1p22.1	1p31.1
LU21_AD	10	8	8	93,919,641	93,949,546	8q22.1	8q22.1
LU12_L	5	1	1	93,922,460	94,607,238	1p22.1	1p22.1
LU12_L	7	1	1	93,923,727	95,181,967	1p22.1	1p21.3
LU12_L	6	1	1	93,935,925	100,040,189	1p22.1	1p21.2
LU21_AD	10	8	8	93,949,546	93,919,641	8q22.1	8q22.1
LU4_L	3	3	3	93,967,830	94,000,324	3q11.2	3q11.2
LU12_L	8	1	1	93,971,649	74,216,241	1p22.1	1p31.1
LU4_L	3	3	3	94,000,324	93,967,830	3q11.2	3q11.2
LU18_AD	3	11	1	94,080,028	99,272,982	11q21	1p21.3
LU12_L	3	11	8	94,085,245	138,423,848	11q21	8q24.23
LU12_L	9	1	1	94,095,355	88,887,926	1p22.1	1p22.2
LU12_L	6	1	1	94,097,312	76,881,405	1p22.1	1p31.1
LU12_L	4	1	1	94,097,347	73,491,754	1p22.1	1p31.1
LU12_L	4	1	1	94,100,145	100,766,217	1p22.1	1p21.2
LU4_AD	3	3	3	94,102,915	94,136,616	3q11.2	3q11.2
LU4_AD	3	3	3	94,136,616	94,102,915	3q11.2	3q11.2
LU5_L	3	12	13	94,222,530	110,828,751	12q22	13q34
LU8_L	5	1	13	94,283,474	57,144,496	1p22.1	13q21.1
LU12_L	5	1	1	94,284,389	85,597,532	1p22.1	1p22.3
LU12_L	7	1	1	94,305,322	109,375,464	1p22.1	1p13.3
LU12_L	14	1	1	94,331,928	87,801,201	1p22.1	1p22.3
LU12_L	4	1	1	94,340,113	88,491,689	1p22.1	1p22.2
LU4_AD	3	23	23	94,347,348	94,384,439	Xq21.33	Xq21.33
LU21_AD	3	7	4	94,351,791	127,055,515	7q21.3	4q28.1

LU4_AD	3	23	23	94,384,439	94,347,348	Xq21.33	Xq21.33
LU12_L	6	1	1	94,412,091	81,271,229	1p22.1	1p31.1
LU12_L	10	1	1	94,489,968	96,816,805	1p22.1	1p21.3
LU12_L	8	1	1	94,503,937	88,521,631	1p22.1	1p22.2
LU12_L	11	1	1	94,533,360	79,864,247	1p22.1	1p31.1
LU11_AD	3	12	11	94,534,600	63,679,813	12q22	11q13.1
LU12_L	5	1	1	94,607,238	93,922,460	1p22.1	1p22.1
LU18_AD	3	11	7	94,647,693	132,853,315	11q21	7q33
LU12_L	7	1	1	94,650,302	96,743,803	1p22.1	1p21.3
LU4_AD	3	23	23	94,654,538	94,691,674	Xq21.33	Xq21.33
LU4_AD	3	23	23	94,691,674	94,654,538	Xq21.33	Xq21.33
LU18_AD	3	1	1	94,691,879	94,750,292	1p22.1	1p21.3
LU3_AD	3	23	14	94,717,265	88,276,305	Xq21.33	14q31.3
LU15_L	6	12	5	94,750,216	121,192,414	12q22	5q23.1
LU18_AD	3	1	1	94,750,292	94,691,879	1p21.3	1p22.1
LU18_AD	3	12	4	94,751,095	185,972,053	12q22	4q35.1
LU14_L	12	14	14	94,814,029	96,445,254	14q32.13	14q32.2
LU14_AD	10	14	14	94,814,752	96,445,533	14q32.13	14q32.2
LU3_L	3	15	15	94,827,280	94,865,634	15q26.2	15q26.2
LU12_L	16	8	8	94,856,218	108,614,004	8q22.1	8q23.1
LU3_L	3	15	15	94,865,634	94,827,280	15q26.2	15q26.2
LU18_L	3	1	3	94,912,154	184,734,715	1p21.3	3q27.2
LU12_L	4	10	22	94,936,131	18,878,228	10q23.33	22q11.21
LU14_L	5	14	15	94,957,196	64,502,346	14q32.13	15q22.31
LU14_AD	8	14	15	94,958,110	64,502,086	14q32.13	15q22.31
LU14_L	10	14	14	94,961,627	94,815,797	14q32.13	14q32.13
LU14_AD	10	14	14	94,962,623	94,816,150	14q32.13	14q32.13
LU4_AD	4	10	14	94,990,957	41,705,124	10q23.33	14q21.1
LU8_AD	4	11	1	95,041,453	55,374,384	11q21	1p32.3
LU12_L	3	5	6	95,047,175	87,185,142	5q15	6q14.3
LU20_L	3	11	11	95,048,664	95,080,069	11q21	11q21
LU12_L	7	1	1	95,077,903	95,199,483	1p21.3	1p21.3
LU20_L	3	11	11	95,080,069	95,048,664	11q21	11q21
LU12_L	5	1	1	95,098,487	107,690,380	1p21.3	1p13.3
LU12_L	10	1	1	95,100,323	96,863,479	1p21.3	1p21.3
LU12_L	8	1	1	95,131,178	86,063,608	1p21.3	1p22.3
LU12_L	6	1	1	95,144,804	99,566,681	1p21.3	1p21.3
LU12_L	13	1	1	95,156,569	88,459,805	1p21.3	1p22.2
LU12_L	7	1	1	95,181,967	93,923,727	1p21.3	1p22.1
LU12_L	7	1	1	95,197,167	75,172,853	1p21.3	1p31.1
LU14_L	3	14	5	95,199,013	2,473,953	14q32.13	5p15.33
LU12_L	7	1	1	95,199,483	95,077,903	1p21.3	1p21.3
LU14_AD	4	14	5	95,200,473	2,473,432	14q32.13	5p15.33
LU14_AD	12	14	14	95,203,792	96,451,251	14q32.13	14q32.2

LU14_L	22	14	14	95,204,198	96,450,489	14q32.13	14q32.2
LU12_L	4	4	1	95,218,766	55,490,973	4q22.3	1p32.3
LU12_L	4	1	1	95,233,937	85,965,460	1p21.3	1p22.3
LU12_L	4	1	1	95,248,275	76,623,782	1p21.3	1p31.1
LU12_L	4	1	1	95,251,892	75,672,611	1p21.3	1p31.1
LU11_AD	3	9	6	95,285,522	27,155,360	9q22.31	6p22.1
LU4_AD	5	8	8	95,324,144	95,358,636	8q22.1	8q22.1
LU21_AD	5	7	7	95,334,196	95,380,430	7q21.3	7q21.3
LU12_L	9	1	1	95,334,992	107,974,197	1p21.3	1p13.3
LU20_L	4	11	5	95,344,208	53,647,566	11q21	5q11.2
LU12_L	5	1	1	95,344,262	104,493,882	1p21.3	1p21.1
LU12_L	20	1	1	95,352,590	82,304,737	1p21.3	1p31.1
LU4_AD	5	8	8	95,358,636	95,324,144	8q22.1	8q22.1
LU12_L	6	1	1	95,368,662	101,177,335	1p21.3	1p21.2
LU21_AD	5	7	7	95,380,430	95,334,196	7q21.3	7q21.3
LU12_L	19	1	1	95,388,236	76,627,487	1p21.3	1p31.1
LU4_AD	13	23	5	95,389,614	58,705,286	Xq21.33	5q11.2
LU12_L	4	1	1	95,396,579	83,304,450	1p21.3	1p31.1
LU12_L	11	1	1	95,406,419	95,550,444	1p21.3	1p21.3
LU11_AD	4	1	1	95,424,411	6,252,915	1p21.3	1p36.31
LU12_L	4	1	1	95,427,228	78,773,927	1p21.3	1p31.1
LU3_AD	3	8	8	95,428,745	95,462,421	8q22.1	8q22.1
LU12_L	5	1	1	95,451,406	86,983,571	1p21.3	1p22.3
LU3_AD	3	8	8	95,462,421	95,428,745	8q22.1	8q22.1
LU12_L	11	1	1	95,469,247	105,241,062	1p21.3	1p21.1
LU12_L	5	1	1	95,472,791	103,085,497	1p21.3	1p21.1
LU8_L	3	2	9	95,494,920	67,288,194	2q11.1	9q13
LU18_L	6	2	9	95,495,344	67,286,415	2q11.1	9q13
LU6_L	4	2	9	95,495,439	67,287,661	2q11.1	9q13
LU8_L	3	2	9	95,495,439	33,400,885	2q11.1	9p13.3
LU12_L	15	1	1	95,524,191	86,842,116	1p21.3	1p22.3
LU12_L	11	1	1	95,550,444	95,406,419	1p21.3	1p21.3
LU12_L	11	1	1	95,615,580	100,799,521	1p21.3	1p21.2
LU20_AD	3	2	2	95,660,622	110,843,505	2q11.1	2q13
LU21_AD	4	11	6	95,665,656	23,162,878	11q21	6p22.3
LU12_L	8	1	1	95,741,177	75,875,860	1p21.3	1p31.1
LU12_L	6	1	1	95,790,930	76,329,878	1p21.3	1p31.1
LU12_L	5	1	1	95,799,192	85,152,474	1p21.3	1p22.3
LU18_L	4	8	7	95,802,166	91,586,150	8q22.1	7q21.2
LU12_L	9	1	1	95,813,077	85,314,986	1p21.3	1p22.3
LU12_L	9	1	1	95,816,856	93,502,296	1p21.3	1p22.1
LU3_L	3	12	6	95,843,079	64,740,316	12q22	6q12
LU16_AD	3	12	12	95,844,159	82,295,187	12q22	12q21.31
LU4_L	3	4	4	95,844,345	95,874,025	4q22.3	4q22.3

LU12_L	9	1	1	95,868,980	107,228,123	1p21.3	1p13.3
LU4_L	3	4	4	95,874,025	95,844,345	4q22.3	4q22.3
LU12_L	16	1	1	95,902,063	73,585,721	1p21.3	1p31.1
LU12_L	6	1	1	95,924,563	96,733,229	1p21.3	1p21.3
LU8_L	3	2	2	95,972,032	96,005,482	2q11.1	2q11.1
LU8_L	3	2	2	96,005,482	95,972,032	2q11.1	2q11.1
LU12_L	4	1	1	96,016,203	92,530,501	1p21.3	1p22.1
LU12_L	3	1	1	96,016,588	86,997,896	1p21.3	1p22.3
LU12_L	11	1	1	96,023,137	106,337,587	1p21.3	1p21.1
LU12_L	8	1	1	96,025,741	100,043,509	1p21.3	1p21.2
LU12_L	8	1	1	96,059,508	74,822,838	1p21.3	1p31.1
LU12_L	5	1	1	96,072,363	82,547,815	1p21.3	1p31.1
LU16_AD	5	5	17	96,094,682	14,084,482	5q15	17p12
LU12_L	11	1	1	96,160,530	90,729,745	1p21.3	1p22.2
LU3_L	3	14	14	96,182,370	96,231,403	14q32.13	14q32.13
LU4_L	3	23	23	96,186,963	96,224,449	Xq21.33	Xq21.33
LU4_L	3	23	23	96,224,449	96,186,963	Xq21.33	Xq21.33
LU3_L	3	14	14	96,231,403	96,182,370	14q32.13	14q32.13
LU3_L	5	9	9	96,272,756	96,303,299	9q22.31	9q22.31
LU8_L	3	2	11	96,291,339	89,486,392	2q11.1	11q14.3
LU3_L	5	9	9	96,303,299	96,272,756	9q22.31	9q22.31
LU21_L	3	2	11	96,304,641	89,468,648	2q11.1	11q14.3
LU16_L	3	3	11	96,336,024	10,529,558	3q11.2	11p15.4
LU12_L	7	1	1	96,337,557	99,572,127	1p21.3	1p21.3
LU5_AD	4	3	3	96,375,617	96,407,665	3q11.2	3q11.2
LU18_L	3	3	18	96,386,150	47,974,247	3q11.2	18q21.1
LU4_AD	4	3	23	96,386,438	79,214,828	3q11.2	Xq21.1
LU5_AD	4	3	3	96,407,665	96,375,617	3q11.2	3q11.2
LU12_L	5	1	1	96,408,464	100,186,487	1p21.3	1p21.2
LU4_AD	5	23	5	96,419,351	56,874,203	Xq21.33	5q11.2
LU12_L	3	14	14	96,428,100	96,458,247	14q32.2	14q32.2
LU14_L	12	14	14	96,445,254	94,814,029	14q32.2	14q32.13
LU14_AD	10	14	14	96,445,533	94,814,752	14q32.2	14q32.13
LU12_L	11	1	1	96,449,103	74,566,756	1p21.3	1p31.1
LU14_L	22	14	14	96,450,489	95,204,198	14q32.2	14q32.13
LU14_AD	12	14	14	96,451,251	95,203,792	14q32.2	14q32.13
LU3_L	3	11	2	96,455,541	173,407,147	11q21	2q31.1
LU12_L	3	14	14	96,458,247	96,428,100	14q32.2	14q32.2
LU12_L	7	1	1	96,462,184	88,930,631	1p21.3	1p22.2
LU4_AD	3	15	15	96,498,997	96,529,976	15q26.2	15q26.2
LU8_AD	3	5	5	96,504,058	96,536,572	5q15	5q15
LU20_L	3	9	5	96,516,455	51,602,150	9q22.31	5q11.2
LU12_L	6	1	1	96,527,183	82,337,202	1p21.3	1p31.1
LU4_AD	3	15	15	96,529,976	96,498,997	15q26.2	15q26.2

LU8_AD	3	5	5	96,536,572	96,504,058	5q15	5q15
LU12_L	7	1	1	96,576,182	107,463,135	1p21.3	1p13.3
LU12_L	12	1	1	96,580,006	76,041,446	1p21.3	1p31.1
LU12_L	10	1	1	96,594,117	76,295,847	1p21.3	1p31.1
LU4_AD	4	1	3	96,613,516	73,200,005	1p21.3	3p13
LU3_L	3	5	13	96,646,444	111,847,040	5q15	13q34
LU12_L	3	5	12	96,647,295	107,608,536	5q15	12q23.3
LU21_L	4	5	11	96,649,233	85,323,933	5q15	11q14.1
LU18_AD	4	5	6	96,650,465	64,737,719	5q15	6q12
LU12_L	9	1	1	96,682,961	107,692,658	1p21.3	1p13.3
LU12_L	9	1	1	96,689,008	89,067,918	1p21.3	1p22.2
LU12_L	26	8	8	96,697,200	134,969,144	8q22.1	8q24.22
LU12_L	19	8	8	96,702,977	133,274,777	8q22.1	8q24.22
LU12_L	6	1	1	96,733,229	95,924,563	1p21.3	1p21.3
LU12_L	7	1	1	96,738,718	109,463,965	1p21.3	1p13.3
LU12_L	7	1	1	96,743,803	94,650,302	1p21.3	1p22.1
LU12_L	7	1	1	96,754,665	83,303,536	1p21.3	1p31.1
LU12_L	14	1	1	96,763,278	88,863,931	1p21.3	1p22.2
LU12_L	7	1	1	96,781,232	98,468,141	1p21.3	1p21.3
LU12_L	9	1	1	96,788,450	79,807,611	1p21.3	1p31.1
LU5_L	3	11	11	96,813,119	96,843,170	11q21	11q21
LU12_L	10	1	1	96,816,805	94,489,968	1p21.3	1p22.1
LU12_L	13	1	1	96,823,140	109,446,540	1p21.3	1p13.3
LU12_L	9	1	1	96,838,801	101,203,451	1p21.3	1p21.2
LU5_L	3	11	11	96,843,170	96,813,119	11q21	11q21
LU20_AD	3	15	15	96,855,620	96,888,564	15q26.2	15q26.2
LU12_L	6	1	1	96,863,234	77,799,373	1p21.3	1p31.1
LU12_L	10	1	1	96,863,479	95,100,323	1p21.3	1p21.3
LU20_AD	3	15	15	96,888,564	96,855,620	15q26.2	15q26.2
LU12_L	4	1	1	96,902,785	89,105,491	1p21.3	1p22.2
LU11_AD	8	15	10	96,908,770	101,598,851	15q26.2	10q24.2
LU12_L	7	1	1	96,938,289	107,484,055	1p21.3	1p13.3
LU12_L	10	1	1	96,967,334	81,228,497	1p21.3	1p31.1
LU4_AD	4	23	6	96,971,229	20,312,318	Xq21.33	6p22.3
LU12_L	9	1	1	96,972,984	108,343,202	1p21.3	1p13.3
LU18_AD	8	5	5	97,033,313	17,705,214	5q15	5p15.1
LU18_L	6	5	5	97,033,966	17,706,155	5q15	5p15.1
LU12_L	9	1	1	97,093,462	89,885,846	1p21.3	1p22.2
LU12_L	13	1	1	97,093,527	88,759,809	1p21.3	1p22.2
LU12_L	6	1	1	97,100,967	75,159,141	1p21.3	1p31.1
LU12_L	3	1	1	97,127,407	85,442,939	1p21.3	1p22.3
LU12_L	5	1	1	97,154,074	75,612,790	1p21.3	1p31.1
LU12_L	7	1	1	97,191,116	106,886,289	1p21.3	1p21.1
LU5_AD	3	1	1	97,211,881	97,245,778	1p21.3	1p21.3

LU12_L	12	8	8	97,215,775	47,667,475	8q22.1	8q11.1
LU12_L	47	8	8	97,220,063	72,983,719	8q22.1	8q13.3
LU12_L	11	1	1	97,226,733	74,257,154	1p21.3	1p31.1
LU5_AD	3	1	1	97,245,778	97,211,881	1p21.3	1p21.3
LU7_L	16	8	12	97,264,222	71,439,627	8q22.1	12q15
LU12_L	10	1	1	97,304,187	102,906,037	1p21.3	1p21.1
LU12_L	9	1	1	97,309,756	80,951,507	1p21.3	1p31.1
LU12_L	9	1	1	97,311,426	87,347,258	1p21.3	1p22.3
LU12_L	9	1	1	97,358,316	99,916,440	1p21.3	1p21.2
LU12_L	8	1	1	97,365,842	85,229,823	1p21.3	1p22.3
LU12_L	7	1	1	97,368,243	103,452,646	1p21.3	1p21.1
LU12_L	11	1	1	97,392,347	86,650,580	1p21.3	1p22.3
LU8_AD	3	5	4	97,412,977	92,546,431	5q15	4q22.1
LU20_AD	3	5	11	97,420,142	121,510,179	5q15	11q24.1
LU12_L	7	1	1	97,435,327	102,461,359	1p21.3	1p21.1
LU12_L	9	1	1	97,454,693	107,487,533	1p21.3	1p13.3
LU12_L	3	1	1	97,462,196	86,520,747	1p21.3	1p22.3
LU12_L	4	1	1	97,488,879	86,412,851	1p21.3	1p22.3
LU8_L	4	1	13	97,499,409	50,225,512	1p21.3	13q14.2
LU12_L	3	1	1	97,542,122	89,856,049	1p21.3	1p22.2
LU14_L	3	7	2	97,571,023	135,724,096	7q21.3	2q21.3
LU12_L	10	1	1	97,572,973	84,586,483	1p21.3	1p31.1
LU16_L	3	7	4	97,582,299	9,455,426	7q21.3	4p16.1
LU12_L	6	1	1	97,592,137	84,037,068	1p21.3	1p31.1
LU12_L	5	1	1	97,592,930	85,289,944	1p21.3	1p22.3
LU18_L	6	5	5	97,600,581	90,045,508	5q15	5q14.3
LU18_AD	6	5	5	97,600,829	90,044,019	5q15	5q14.3
LU18_AD	3	14	3	97,660,380	36,506,415	14q32.2	3p22.2
LU4_AD	3	10	13	97,700,364	67,166,568	10q24.1	13q21.32
LU3_AD	3	11	11	97,738,298	97,769,983	11q22.1	11q22.1
LU3_AD	3	11	11	97,769,983	97,738,298	11q22.1	11q22.1
LU3_AD	3	5	6	97,773,596	29,217,051	5q15	6p22.1
LU7_L	3	13	13	97,798,659	97,829,276	13q32.1	13q32.1
LU12_L	6	1	1	97,805,576	98,772,237	1p21.3	1p21.3
LU12_L	5	1	1	97,805,867	105,486,624	1p21.3	1p21.1
LU20_L	3	3	3	97,824,286	97,863,533	3q11.2	3q11.2
LU7_L	3	13	13	97,829,276	97,798,659	13q32.1	13q32.1
LU3_AD	3	4	4	97,845,967	97,883,520	4q22.3	4q22.3
LU20_L	3	3	3	97,863,533	97,824,286	3q11.2	3q11.2
LU12_L	10	1	1	97,871,373	106,297,094	1p21.3	1p21.1
LU12_L	5	1	1	97,874,898	102,914,617	1p21.3	1p21.1
LU3_AD	3	4	4	97,883,520	97,845,967	4q22.3	4q22.3
LU18_AD	4	3	16	97,905,262	29,725,762	3q11.2	16p11.2
LU20_AD	3	3	1	97,911,418	4,246,967	3q11.2	1p36.32

LU3_L	3	3	5	97,911,746	121,954,719	3q11.2	5q23.2
LU8_L	5	14	14	97,928,647	97,962,003	14q32.2	14q32.2
LU12_L	5	1	1	97,937,235	83,052,625	1p21.3	1p31.1
LU12_L	8	1	1	97,944,536	103,274,963	1p21.3	1p21.1
LU12_L	5	1	1	97,951,977	106,272,069	1p21.3	1p21.1
LU8_L	5	14	14	97,962,003	97,928,647	14q32.2	14q32.2
LU12_L	6	1	1	98,085,637	107,142,592	1p21.3	1p21.1
LU12_L	7	1	1	98,085,722	98,354,009	1p21.3	1p21.3
LU16_L	5	1	1	98,241,142	176,620,723	1p21.3	1q25.2
LU16_AD	18	1	1	98,241,163	176,621,237	1p21.3	1q25.2
LU12_L	16	1	1	98,242,347	104,108,169	1p21.3	1p21.1
LU4_AD	3	13	1	98,244,370	50,039,829	13q32.2	1p33
LU16_L	5	1	1	98,296,336	109,969,104	1p21.3	1p13.3
LU16_AD	9	1	1	98,297,652	109,968,522	1p21.3	1p13.3
LU3_L	3	12	12	98,337,604	98,368,429	12q23.1	12q23.1
LU12_L	7	1	1	98,354,009	98,085,722	1p21.3	1p21.3
LU3_AD	3	4	4	98,367,701	98,400,237	4q22.3	4q22.3
LU3_L	3	12	12	98,368,429	98,337,604	12q23.1	12q23.1
LU3_AD	4	1	1	98,370,239	98,401,363	1p21.3	1p21.3
LU11_AD	4	3	8	98,379,158	87,477,304	3q12.1	8q21.3
LU12_L	7	9	26	98,394,832	5,933	9q22.32	26
LU12_AD	3	9	26	98,395,959	3,715	9q22.32	26
LU12_L	17	9	26	98,399,203	13,181	9q22.32	26
LU12_AD	14	9	26	98,399,913	13,275	9q22.32	26
LU3_AD	3	4	4	98,400,237	98,367,701	4q22.3	4q22.3
LU3_AD	4	1	1	98,401,363	98,370,239	1p21.3	1p21.3
LU3_L	4	2	2	98,438,710	40,896,570	2q11.2	2p22.1
LU3_L	3	2	23	98,439,287	70,716,005	2q11.2	Xq13.1
LU12_L	7	1	1	98,468,141	96,781,232	1p21.3	1p21.3
LU12_L	9	1	1	98,476,719	75,434,427	1p21.3	1p31.1
LU18_AD	3	5	16	98,529,711	14,919,622	5q21.1	16p13.11
LU18_L	6	5	12	98,530,472	59,926,642	5q21.1	12q14.1
LU4_AD	3	5	2	98,532,634	159,706,535	5q21.1	2q24.1
LU12_AD	6	15	21	98,619,945	9,915,740	15q26.3	21p11.2
LU3_AD	4	9	9	98,662,838	98,693,673	9q22.32	9q22.32
LU12_L	20	1	1	98,673,433	107,797,298	1p21.3	1p13.3
LU11_AD	4	14	14	98,684,062	98,735,423	14q32.2	14q32.2
LU3_AD	4	9	9	98,693,673	98,662,838	9q22.32	9q22.32
LU12_AD	6	15	15	98,707,714	31,837,780	15q26.3	15q13.3
LU11_AD	4	14	14	98,735,423	98,684,062	14q32.2	14q32.2
LU12_L	9	1	1	98,760,005	106,067,225	1p21.3	1p21.1
LU12_L	8	1	1	98,763,303	91,958,669	1p21.3	1p22.2
LU12_L	6	1	1	98,772,237	97,805,576	1p21.3	1p21.3
LU12_L	10	1	1	98,807,947	76,943,529	1p21.3	1p31.1

LU18_AD	27	8	6	98,863,550	167,333,893	8q22.1	6q27
LU18_L	25	8	6	98,863,763	167,334,518	8q22.1	6q27
LU15_L	10	9	10	98,923,174	120,042,093	9q22.32	10q26.11
LU12_L	20	1	1	98,963,268	79,591,967	1p21.3	1p31.1
LU11_AD	4	1	16	98,977,776	28,460,259	1p21.3	16p11.2
LU12_L	8	1	1	99,012,370	102,219,301	1p21.3	1p21.1
LU12_L	4	1	1	99,117,512	106,849,292	1p21.3	1p21.1
LU3_L	4	3	3	99,148,918	99,180,824	3q12.1	3q12.1
LU5_AD	3	2	2	99,152,511	99,189,551	2q11.2	2q11.2
LU20_L	4	14	14	99,166,842	99,216,448	14q32.2	14q32.2
LU12_L	19	1	1	99,172,435	87,641,546	1p21.3	1p22.3
LU3_L	4	3	3	99,180,824	99,148,918	3q12.1	3q12.1
LU21_L	3	7	7	99,183,099	99,560,662	7q22.1	7q22.1
LU5_AD	3	2	2	99,189,551	99,152,511	2q11.2	2q11.2
LU20_L	4	14	14	99,216,448	99,166,842	14q32.2	14q32.2
LU12_L	9	1	1	99,227,800	88,778,759	1p21.3	1p22.2
LU18_AD	3	1	11	99,272,982	94,080,028	1p21.3	11q21
LU12_L	5	1	1	99,273,660	103,371,132	1p21.3	1p21.1
LU4_L	3	23	23	99,304,364	99,343,671	Xq22.1	Xq22.1
LU4_L	3	23	23	99,343,671	99,304,364	Xq22.1	Xq22.1
LU12_L	3	1	1	99,398,405	82,853,784	1p21.3	1p31.1
LU4_AD	3	13	10	99,410,223	44,090,899	13q32.3	10q11.21
LU12_L	20	1	1	99,414,426	74,262,177	1p21.3	1p31.1
LU12_L	10	1	1	99,419,298	75,902,112	1p21.3	1p31.1
LU12_L	11	1	1	99,426,165	99,486,948	1p21.3	1p21.3
LU12_L	13	1	1	99,441,562	99,890,789	1p21.3	1p21.2
LU12_L	10	1	1	99,459,542	93,786,261	1p21.3	1p22.1
LU12_L	7	1	1	99,462,417	107,044,704	1p21.3	1p21.1
LU12_L	14	1	1	99,468,842	91,025,743	1p21.3	1p22.2
LU12_L	11	1	1	99,486,948	99,426,165	1p21.3	1p21.3
LU7_AD	6	7	6	99,558,200	63,557,035	7q22.1	6q12
LU21_L	3	7	7	99,560,662	99,183,099	7q22.1	7q22.1
LU20_AD	3	7	18	99,563,127	24,465,545	7q22.1	18q11.2
LU12_L	6	1	1	99,566,681	95,144,804	1p21.3	1p21.3
LU12_L	7	1	1	99,572,127	96,337,557	1p21.3	1p21.3
LU12_L	8	1	1	99,581,245	75,627,542	1p21.3	1p31.1
LU12_L	3	1	1	99,585,726	105,556,425	1p21.3	1p21.1
LU3_AD	3	7	7	99,605,605	99,638,824	7q22.1	7q22.1
LU3_AD	3	7	7	99,638,824	99,605,605	7q22.1	7q22.1
LU11_AD	3	9	10	99,694,456	88,987,027	9q22.33	10q23.2
LU12_L	5	1	1	99,717,231	87,451,664	1p21.2	1p22.3
LU12_L	9	1	1	99,718,479	88,920,296	1p21.2	1p22.2
LU21_L	5	8	8	99,759,180	99,798,053	8q22.2	8q22.2
LU21_L	5	8	8	99,798,053	99,759,180	8q22.2	8q22.2

LU8_L	4	2	6	99,812,670	56,895,132	2q11.2	6p12.1
LU14_L	3	23	5	99,823,799	129,878,635	Xq22.1	5q23.3
LU3_AD	3	23	1	99,824,438	71,974,309	Xq22.1	1p31.1
LU20_L	4	2	4	99,884,461	177,270,599	2q11.2	4q34.2
LU21_AD	4	2	4	99,885,184	100,408,279	2q11.2	4q23
LU12_L	13	1	1	99,890,789	99,441,562	1p21.2	1p21.3
LU12_L	9	1	1	99,912,129	80,424,241	1p21.2	1p31.1
LU12_L	9	1	1	99,916,440	97,358,316	1p21.2	1p21.3
LU12_L	5	1	1	99,926,694	88,100,444	1p21.2	1p22.3
LU12_L	10	1	1	99,944,725	108,628,252	1p21.2	1p13.3
LU12_L	11	1	1	99,951,290	74,344,084	1p21.2	1p31.1
LU15_AD	3	4	1	99,995,054	79,987,746	4q23	1p31.1
LU11_AD	3	8	8	100,035,475	100,083,576	8q22.2	8q22.2
LU12_L	6	1	1	100,040,189	93,935,925	1p21.2	1p22.1
LU12_L	8	1	1	100,043,509	96,025,741	1p21.2	1p21.3
LU12_L	8	1	1	100,058,938	106,301,054	1p21.2	1p21.1
LU12_L	9	1	1	100,060,313	88,196,349	1p21.2	1p22.3
LU11_AD	3	8	8	100,083,576	100,035,475	8q22.2	8q22.2
LU12_L	18	1	1	100,095,269	107,890,374	1p21.2	1p13.3
LU12_L	11	1	1	100,099,863	88,780,919	1p21.2	1p22.2
LU12_L	12	1	1	100,100,155	86,700,539	1p21.2	1p22.3
LU12_AD	4	4	8	100,107,686	39,730,930	4q23	8p11.21
LU12_L	9	1	1	100,167,335	109,894,766	1p21.2	1p13.3
LU12_L	5	1	1	100,186,487	96,408,464	1p21.2	1p21.3
LU12_L	28	1	1	100,247,500	74,860,712	1p21.2	1p31.1
LU12_L	11	1	1	100,303,275	74,654,459	1p21.2	1p31.1
LU12_L	8	1	1	100,307,973	88,172,263	1p21.2	1p22.3
LU18_L	3	15	15	100,333,770	28,946,196	15q26.3	15q13.1
LU12_L	7	1	1	100,347,708	108,645,357	1p21.2	1p13.3
LU21_AD	3	11	11	100,357,561	100,388,379	11q22.1	11q22.1
LU21_AD	3	11	11	100,388,379	100,357,561	11q22.1	11q22.1
LU21_AD	4	4	2	100,408,279	99,885,184	4q23	2q11.2
LU12_AD	3	4	4	100,408,442	35,145,340	4q23	4p15.1
LU12_L	3	1	1	100,425,043	78,593,893	1p21.2	1p31.1
LU6_AD	3	23	6	100,438,364	32,525,455	Xq22.1	6p21.32
LU3_AD	5	8	8	100,482,474	100,512,623	8q22.2	8q22.2
LU12_L	3	1	1	100,490,822	101,717,615	1p21.2	1p21.2
LU3_AD	5	8	8	100,512,623	100,482,474	8q22.2	8q22.2
LU12_L	9	1	1	100,532,502	83,053,372	1p21.2	1p31.1
LU7_AD	5	5	5	100,593,395	72,138,954	5q21.1	5q13.2
LU7_L	9	5	5	100,596,822	72,135,956	5q21.1	5q13.2
LU12_L	4	1	1	100,621,526	104,446,320	1p21.2	1p21.1
LU12_L	5	1	1	100,671,986	93,747,296	1p21.2	1p22.1
LU12_L	15	1	1	100,672,161	84,020,197	1p21.2	1p31.1

LU12_L	4	1	1	100,766,217	94,100,145	1p21.2	1p22.1
LU20_L	3	10	23	100,772,142	75,250,527	10q24.2	Xq13.3
LU12_L	11	1	1	100,799,521	95,615,580	1p21.2	1p21.3
LU8_AD	3	10	10	100,804,280	100,857,965	10q24.2	10q24.2
LU4_L	4	11	14	100,846,830	19,400,720	11q22.1	14q11.2
LU18_L	4	11	14	100,847,009	19,400,241	11q22.1	14q11.2
LU12_L	9	1	1	100,855,114	101,045,385	1p21.2	1p21.2
LU12_L	15	1	1	100,857,576	91,203,658	1p21.2	1p22.2
LU8_AD	3	10	10	100,857,965	100,804,280	10q24.2	10q24.2
LU4_AD	3	9	9	100,877,943	100,911,336	9q22.33	9q22.33
LU4_AD	3	9	9	100,911,336	100,877,943	9q22.33	9q22.33
LU20_AD	9	14	14	100,924,665	100,854,358	14q32.2	14q32.2
LU20_L	6	14	14	100,925,440	100,854,426	14q32.2	14q32.2
LU12_L	7	1	1	100,939,627	109,206,937	1p21.2	1p13.3
LU12_L	13	1	1	100,947,388	77,871,309	1p21.2	1p31.1
LU20_AD	4	4	14	100,952,226	58,189,674	4q23	14q23.1
LU15_L	4	10	18	101,026,518	30,082,588	10q24.2	18q12.1
LU12_L	9	1	1	101,033,210	101,383,626	1p21.2	1p21.2
LU12_L	9	1	1	101,045,385	100,855,114	1p21.2	1p21.2
LU12_L	6	1	1	101,060,876	88,629,588	1p21.2	1p22.2
LU12_L	5	1	1	101,076,825	76,989,619	1p21.2	1p31.1
LU12_L	7	1	1	101,101,508	88,632,946	1p21.2	1p22.2
LU5_L	4	11	5	101,101,925	114,331,406	11q22.1	5q22.3
LU12_AD	3	11	6	101,102,628	151,176,430	11q22.1	6q25.1
LU20_AD	4	11	5	101,103,695	114,329,531	11q22.1	5q22.3
LU12_L	5	1	1	101,104,565	76,785,519	1p21.2	1p31.1
LU18_L	3	11	5	101,105,052	114,332,082	11q22.1	5q22.3
LU12_L	3	11	1	101,108,844	101,966,536	11q22.1	1p21.2
LU8_L	3	11	8	101,110,155	29,165,976	11q22.1	8p12
LU14_L	3	11	3	101,117,062	87,788,597	11q22.1	3p11.2
LU12_L	8	1	1	101,119,306	78,473,993	1p21.2	1p31.1
LU12_L	6	1	1	101,177,335	95,368,662	1p21.2	1p21.3
LU12_L	8	1	1	101,177,916	84,253,030	1p21.2	1p31.1
LU12_L	4	1	1	101,178,573	93,018,401	1p21.2	1p22.1
LU6_L	6	11	11	101,193,389	112,393,785	11q22.1	11q23.1
LU12_L	9	1	1	101,203,451	96,838,801	1p21.2	1p21.3
LU12_L	7	1	1	101,321,014	77,644,945	1p21.2	1p31.1
LU12_L	11	1	1	101,324,334	82,143,441	1p21.2	1p31.1
LU12_L	8	1	1	101,328,506	89,129,692	1p21.2	1p22.2
LU12_L	13	1	1	101,345,143	77,133,911	1p21.2	1p31.1
LU3_AD	4	2	2	101,351,065	101,380,995	2q11.2	2q11.2
LU20_AD	3	3	7	101,352,258	29,684,296	3q12.3	7p14.3
LU12_L	8	1	1	101,357,944	89,172,338	1p21.2	1p22.2
LU12_L	7	1	1	101,371,739	89,397,287	1p21.2	1p22.2

LU12_L	8	1	1	101,373,562	81,773,073	1p21.2	1p31.1
LU3_AD	4	2	2	101,380,995	101,351,065	2q11.2	2q11.2
LU12_L	9	1	1	101,383,626	101,033,210	1p21.2	1p21.2
LU7_L	5	3	5	101,416,320	30,492,848	3q12.3	5p13.3
LU3_L	4	3	5	101,416,488	30,489,984	3q12.3	5p13.3
LU5_L	5	3	5	101,418,614	30,483,511	3q12.3	5p13.3
LU14_L	9	9	9	101,463,756	77,323,487	9q22.33	9q21.13
LU12_L	20	1	1	101,472,114	91,628,715	1p21.2	1p22.2
LU12_L	14	1	1	101,543,302	109,907,754	1p21.2	1p13.3
LU12_L	5	1	1	101,547,067	89,094,369	1p21.2	1p22.2
LU18_L	3	11	7	101,569,208	141,450,767	11q22.1	7q34
LU5_AD	4	11	11	101,586,964	101,616,997	11q22.1	11q22.1
LU11_AD	8	10	15	101,598,851	96,908,770	10q24.2	15q26.2
LU4_AD	3	10	9	101,600,012	38,241,137	10q24.2	9p13.2
LU18_L	3	7	7	101,613,234	101,653,896	7q22.1	7q22.1
LU5_AD	4	11	11	101,616,997	101,586,964	11q22.1	11q22.1
LU18_L	3	7	7	101,653,896	101,613,234	7q22.1	7q22.1
LU20_AD	4	6	17	101,674,234	50,671,704	6q16.3	17q22
LU12_L	3	1	1	101,717,615	100,490,822	1p21.2	1p21.2
LU16_AD	4	1	1	101,804,126	106,771,277	1p21.2	1p21.1
LU16_AD	8	1	1	101,804,619	68,109,665	1p21.2	1p31.3
LU16_L	5	1	1	101,805,994	68,108,978	1p21.2	1p31.3
LU18_AD	3	6	6	101,808,555	101,842,409	6q16.3	6q16.3
LU14_L	5	6	6	101,818,044	103,013,268	6q16.3	6q16.3
LU3_AD	4	5	5	101,821,843	101,853,381	5q21.1	5q21.1
LU18_AD	3	6	6	101,842,409	101,808,555	6q16.3	6q16.3
LU3_AD	4	5	5	101,853,381	101,821,843	5q21.1	5q21.1
LU12_L	7	1	1	101,907,490	76,089,228	1p21.2	1p31.1
LU12_L	11	1	1	101,911,898	76,955,117	1p21.2	1p31.1
LU7_L	5	1	1	101,917,227	91,602,221	1p21.2	1p22.2
LU6_L	5	1	12	101,929,795	71,653,420	1p21.2	12q21.1
LU12_L	7	1	1	101,936,158	78,825,994	1p21.2	1p31.1
LU12_L	3	1	11	101,966,536	101,108,844	1p21.2	11q22.1
LU12_L	7	1	1	101,980,828	102,855,416	1p21.2	1p21.1
LU12_L	6	1	1	102,057,203	80,956,046	1p21.2	1p31.1
LU12_L	14	1	1	102,063,777	73,735,464	1p21.2	1p31.1
LU12_L	14	1	1	102,076,509	79,580,675	1p21.2	1p31.1
LU12_L	7	1	1	102,078,885	90,024,007	1p21.2	1p22.2
LU12_L	14	1	1	102,107,864	81,227,403	1p21.2	1p31.1
LU4_AD	4	14	14	102,109,463	102,140,548	14q32.31	14q32.31
LU7_AD	4	23	23	102,139,770	102,780,866	Xq22.1	Xq22.2
LU4_AD	4	14	14	102,140,548	102,109,463	14q32.31	14q32.31
LU7_AD	3	10	5	102,143,065	470,395	10q24.31	5p15.33
LU6_L	29	1	11	102,178,705	66,635,658	1p21.2	11q13.2

LU3_L	4	11	11	102,196,871	102,226,654	11q22.2	11q22.2
LU12_L	6	1	1	102,203,596	82,140,162	1p21.1	1p31.1
LU12_L	8	1	1	102,219,301	99,012,370	1p21.1	1p21.3
LU3_L	4	11	11	102,226,654	102,196,871	11q22.2	11q22.2
LU12_L	9	1	1	102,238,047	83,962,954	1p21.1	1p31.1
LU8_L	3	15	15	102,280,323	82,742,974	15q26.3	15q25.2
LU3_L	3	15	15	102,306,444	75,595,768	15q26.3	15q24.2
LU12_L	8	1	1	102,333,633	92,244,847	1p21.1	1p22.1
LU3_AD	5	15	15	102,353,938	102,386,710	15q26.3	15q26.3
LU6_AD	7	11	11	102,382,351	134,144,109	11q22.2	11q25
LU6_L	5	11	11	102,382,500	134,143,519	11q22.2	11q25
LU3_AD	5	15	15	102,386,710	102,353,938	15q26.3	15q26.3
LU4_AD	6	4	4	102,408,245	102,437,790	4q24	4q24
LU4_AD	6	4	4	102,437,790	102,408,245	4q24	4q24
LU12_L	7	1	1	102,461,359	97,435,327	1p21.1	1p21.3
LU20_L	3	15	1	102,478,589	392,517	15q26.3	1p36.33
LU12_AD	3	15	8	102,494,133	119,738	15q26.3	8p23.3
LU4_AD	3	14	1	102,547,351	158,499,686	14q32.31	1q23.1
LU21_AD	3	4	1	102,554,044	118,773,236	4q24	1p12
LU12_L	13	1	1	102,564,781	102,843,276	1p21.1	1p21.1
LU8_L	3	11	11	102,647,236	102,711,171	11q22.2	11q22.2
LU16_L	4	13	1	102,669,922	62,676,376	13q33.1	1p31.3
LU12_L	9	1	1	102,676,951	93,837,181	1p21.1	1p22.1
LU12_L	7	1	1	102,709,444	93,842,797	1p21.1	1p22.1
LU8_L	3	11	11	102,711,171	102,647,236	11q22.2	11q22.2
LU12_L	7	1	1	102,714,285	82,836,857	1p21.1	1p31.1
LU16_AD	3	23	23	102,718,700	102,766,165	Xq22.2	Xq22.2
LU4_AD	6	1	1	102,721,218	102,753,079	1p21.1	1p21.1
LU12_L	7	1	1	102,722,512	91,621,349	1p21.1	1p22.2
LU4_AD	6	1	1	102,753,079	102,721,218	1p21.1	1p21.1
LU16_AD	3	23	23	102,766,165	102,718,700	Xq22.2	Xq22.2
LU7_AD	4	23	23	102,780,866	102,139,770	Xq22.2	Xq22.1
LU12_L	3	1	1	102,793,725	103,340,668	1p21.1	1p21.1
LU12_L	4	1	1	102,803,793	80,959,009	1p21.1	1p31.1
LU18_AD	3	4	21	102,824,039	10,144,358	4q24	21p11.2
LU21_L	4	4	5	102,824,069	19,706,830	4q24	5p14.3
LU3_AD	3	4	20	102,826,785	23,448,622	4q24	20p11.21
LU11_AD	5	7	12	102,841,814	83,847,840	7q22.1	12q21.31
LU12_L	13	1	1	102,843,276	102,564,781	1p21.1	1p21.1
LU12_L	10	1	1	102,850,184	80,433,247	1p21.1	1p31.1
LU12_L	3	1	1	102,850,678	87,033,447	1p21.1	1p22.3
LU12_L	7	1	1	102,855,416	101,980,828	1p21.1	1p21.2
LU14_L	4	6	23	102,898,143	91,855,810	6q16.3	Xq21.32
LU12_L	10	1	1	102,906,037	97,304,187	1p21.1	1p21.3

LU12_L	5	1	1	102,914,617	97,874,898	1p21.1	1p21.3
LU4_AD	4	3	1	102,932,054	48,981,343	3q13.11	1p33
LU12_L	12	1	1	102,933,265	93,597,375	1p21.1	1p22.1
LU14_L	5	6	6	103,013,268	101,818,044	6q16.3	6q16.3
LU12_L	5	1	1	103,016,729	104,529,180	1p21.1	1p21.1
LU12_L	3	1	1	103,020,556	81,738,397	1p21.1	1p31.1
LU6_L	4	12	6	103,057,126	110,824,879	12q23.2	6q21
LU21_L	3	12	17	103,058,217	6,778,881	12q23.2	17p13.1
LU14_L	3	12	11	103,059,241	59,693,414	12q23.2	11q12.1
LU18_L	5	12	6	103,059,319	110,820,567	12q23.2	6q21
LU12_L	4	1	1	103,073,944	106,654,685	1p21.1	1p21.1
LU12_L	5	1	1	103,085,497	95,472,791	1p21.1	1p21.3
LU12_L	3	1	1	103,085,760	86,406,632	1p21.1	1p22.3
LU12_L	9	1	1	103,112,735	85,292,532	1p21.1	1p22.3
LU12_L	6	1	1	103,113,212	81,561,768	1p21.1	1p31.1
LU12_L	4	4	1	103,155,848	87,273,944	4q24	1p22.3
LU8_L	3	4	10	103,161,983	110,805,606	4q24	10q25.1
LU12_L	4	8	8	103,242,198	28,706,022	8q22.3	8p21.1
LU4_AD	3	11	4	103,272,244	156,382,029	11q22.3	4q32.1
LU12_L	8	1	1	103,274,963	97,944,536	1p21.1	1p21.3
LU12_L	9	1	1	103,298,406	73,578,896	1p21.1	1p31.1
LU16_L	4	1	1	103,300,360	109,966,678	1p21.1	1p13.3
LU20_L	3	4	4	103,307,393	103,339,739	4q24	4q24
LU20_L	3	4	4	103,339,739	103,307,393	4q24	4q24
LU12_L	3	1	1	103,340,668	102,793,725	1p21.1	1p21.1
LU3_L	3	12	12	103,357,450	103,396,743	12q23.2	12q23.2
LU12_L	11	1	1	103,365,002	87,653,237	1p21.1	1p22.3
LU6_L	11	1	11	103,365,317	66,574,476	1p21.1	11q13.2
LU12_L	5	1	1	103,371,132	99,273,660	1p21.1	1p21.3
LU3_L	3	12	12	103,396,743	103,357,450	12q23.2	12q23.2
LU15_L	4	5	5	103,403,494	107,906,620	5q21.2	5q21.3
LU12_L	4	5	1	103,404,169	55,489,700	5q21.2	1p32.3
LU12_L	7	1	1	103,452,646	97,368,243	1p21.1	1p21.3
LU12_L	4	1	1	103,477,630	74,276,194	1p21.1	1p31.1
LU15_AD	7	9	9	103,545,276	71,935,671	9q31.1	9q21.11
LU8_AD	3	7	7	103,600,274	103,634,882	7q22.1	7q22.1
LU8_AD	3	7	7	103,634,882	103,600,274	7q22.1	7q22.1
LU8_L	3	11	11	103,661,580	103,693,056	11q22.3	11q22.3
LU3_L	4	7	7	103,672,890	103,702,635	7q22.1	7q22.1
LU12_L	9	1	1	103,684,123	81,062,208	1p21.1	1p31.1
LU12_L	8	1	1	103,684,314	80,943,321	1p21.1	1p31.1
LU8_L	3	11	11	103,693,056	103,661,580	11q22.3	11q22.3
LU15_L	5	14	1	103,701,174	142,594,981	14q32.32	1q12
LU15_L	3	14	7	103,702,302	155,031,302	14q32.32	7q36.2

LU3_L	4	7	7	103,702,635	103,672,890	7q22.1	7q22.1
LU18_AD	4	14	5	103,705,008	1,579,368	14q32.32	5p15.33
LU14_AD	5	7	7	103,849,334	103,918,699	7q22.2	7q22.2
LU16_AD	3	9	23	103,887,727	155,030,957	9q31.1	Xq28
LU14_AD	5	7	7	103,918,699	103,849,334	7q22.2	7q22.2
LU12_L	15	1	1	104,066,140	76,632,720	1p21.1	1p31.1
LU12_L	7	1	1	104,088,432	92,154,149	1p21.1	1p22.1
LU4_AD	4	2	2	104,090,561	104,129,396	2q12.1	2q12.1
LU12_L	16	1	1	104,108,169	98,242,347	1p21.1	1p21.3
LU12_L	16	1	1	104,108,639	93,675,610	1p21.1	1p22.1
LU12_L	5	1	1	104,122,986	73,375,595	1p21.1	1p31.1
LU4_AD	4	2	2	104,129,396	104,090,561	2q12.1	2q12.1
LU8_L	3	23	8	104,130,919	54,373,083	Xq22.3	8q11.23
LU20_L	5	23	10	104,131,202	37,569,382	Xq22.3	10p11.21
LU18_AD	5	4	12	104,145,598	68,934,882	4q24	12q15
LU7_L	3	4	13	104,148,247	78,542,756	4q24	13q22.3
LU20_L	3	8	8	104,198,775	104,242,201	8q22.3	8q22.3
LU12_L	4	1	1	104,236,482	88,104,420	1p21.1	1p22.3
LU20_L	3	8	8	104,242,201	104,198,775	8q22.3	8q22.3
LU4_AD	3	4	4	104,305,517	104,338,395	4q24	4q24
LU4_AD	3	4	4	104,338,395	104,305,517	4q24	4q24
LU12_L	5	1	1	104,406,467	74,667,614	1p21.1	1p31.1
LU12_L	4	1	1	104,446,320	100,621,526	1p21.1	1p21.2
LU3_L	6	4	16	104,475,260	86,771,328	4q24	16q24.1
LU12_AD	3	4	8	104,478,374	8,027,757	4q24	8p23.1
LU12_L	10	1	1	104,486,255	79,449,074	1p21.1	1p31.1
LU12_L	5	1	1	104,493,882	95,344,262	1p21.1	1p21.3
LU12_L	5	1	1	104,529,180	103,016,729	1p21.1	1p21.1
LU12_L	7	1	1	104,534,006	75,607,215	1p21.1	1p31.1
LU12_L	20	8	8	104,547,102	24,908,703	8q22.3	8p21.2
LU4_L	4	5	5	104,584,630	104,615,694	5q21.3	5q21.3
LU3_L	4	11	11	104,595,877	104,625,476	11q22.3	11q22.3
LU4_L	4	5	5	104,615,694	104,584,630	5q21.3	5q21.3
LU3_L	4	11	11	104,625,476	104,595,877	11q22.3	11q22.3
LU12_L	15	1	1	104,632,073	81,742,408	1p21.1	1p31.1
LU3_L	3	23	5	104,650,950	37,504,332	Xq22.3	5p13.2
LU12_L	15	8	8	104,706,094	2,975,819	8q22.3	8p23.2
LU12_L	6	8	8	104,710,516	93,118,212	8q22.3	8q21.3
LU12_L	15	1	1	104,810,326	78,124,955	1p21.1	1p31.1
LU12_L	7	1	1	104,828,295	105,599,503	1p21.1	1p21.1
LU21_L	4	8	8	104,837,909	104,875,512	8q22.3	8q22.3
LU21_L	4	8	8	104,875,512	104,837,909	8q22.3	8q22.3
LU18_L	3	1	23	104,923,957	115,126,707	1p21.1	Xq23
LU4_L	3	1	8	105,005,801	35,817,778	1p21.1	8p12

LU12_L	5	1	1	105,065,791	91,629,321	1p21.1	1p22.2
LU12_L	4	1	1	105,066,399	79,864,084	1p21.1	1p31.1
LU12_L	5	1	1	105,131,659	92,939,797	1p21.1	1p22.1
LU12_L	3	1	1	105,132,408	92,568,285	1p21.1	1p22.1
LU3_L	3	3	3	105,138,121	105,170,166	3q13.11	3q13.11
LU7_L	4	1	10	105,138,894	107,492,730	1p21.1	10q25.1
LU3_L	3	3	3	105,170,166	105,138,121	3q13.11	3q13.11
LU12_L	11	1	1	105,241,062	95,469,247	1p21.1	1p21.3
LU3_AD	3	23	11	105,427,426	93,850,323	Xq22.3	11q21
LU12_L	9	1	1	105,435,382	78,991,419	1p21.1	1p31.1
LU12_L	7	1	1	105,439,476	84,816,263	1p21.1	1p31.1
LU12_L	7	1	1	105,466,361	87,642,293	1p21.1	1p22.3
LU12_L	7	1	1	105,470,915	91,185,452	1p21.1	1p22.2
LU12_L	10	1	1	105,472,252	75,680,237	1p21.1	1p31.1
LU12_L	5	1	1	105,486,624	97,805,867	1p21.1	1p21.3
LU4_AD	3	13	13	105,526,707	105,557,261	13q33.2	13q33.2
LU12_L	3	1	1	105,556,425	99,585,726	1p21.1	1p21.3
LU4_AD	3	13	13	105,557,261	105,526,707	13q33.2	13q33.2
LU4_L	3	4	4	105,558,391	105,589,816	4q24	4q24
LU12_L	10	1	1	105,588,081	74,522,129	1p21.1	1p31.1
LU12_L	7	1	1	105,588,674	106,114,047	1p21.1	1p21.1
LU4_L	3	4	4	105,589,816	105,558,391	4q24	4q24
LU5_AD	3	10	10	105,592,777	105,626,372	10q24.33	10q24.33
LU12_L	7	1	1	105,599,503	104,828,295	1p21.1	1p21.1
LU5_AD	3	10	10	105,626,372	105,592,777	10q24.33	10q24.33
LU12_L	6	1	1	105,641,710	91,950,859	1p21.1	1p22.2
LU4_AD	3	6	6	105,645,280	105,682,604	6q21	6q21
LU12_L	6	1	1	105,656,494	84,022,280	1p21.1	1p31.1
LU4_AD	3	6	6	105,682,604	105,645,280	6q21	6q21
LU21_L	4	12	21	105,701,821	10,140,630	12q23.3	21p11.2
LU12_L	3	1	1	105,762,482	86,841,236	1p21.1	1p22.3
LU12_L	8	1	1	105,819,860	91,647,464	1p21.1	1p22.2
LU12_L	14	1	1	105,858,307	90,929,699	1p21.1	1p22.2
LU15_L	4	12	7	105,906,669	21,918,916	12q23.3	7p15.3
LU20_L	3	1	1	105,921,576	105,953,418	1p21.1	1p21.1
LU20_L	3	1	1	105,953,418	105,921,576	1p21.1	1p21.1
LU3_L	3	12	14	105,997,191	86,391,087	12q23.3	14q31.3
LU14_AD	3	13	13	106,020,148	106,052,150	13q33.2	13q33.2
LU12_L	7	1	1	106,032,382	87,448,439	1p21.1	1p22.3
LU12_L	6	1	1	106,034,413	83,348,041	1p21.1	1p31.1
LU12_L	13	1	1	106,048,576	85,165,123	1p21.1	1p22.3
LU14_AD	3	13	13	106,052,150	106,020,148	13q33.2	13q33.2
LU12_L	9	1	1	106,067,225	98,760,005	1p21.1	1p21.3
LU12_L	5	1	1	106,075,499	83,758,437	1p21.1	1p31.1

LU12_L	7	1	1	106,114,047	105,588,674	1p21.1	1p21.1
LU12_L	11	1	1	106,184,745	91,347,524	1p21.1	1p22.2
LU4_AD	3	23	23	106,209,317	106,243,853	Xq22.3	Xq22.3
LU12_L	17	1	1	106,241,251	79,163,016	1p21.1	1p31.1
LU4_AD	3	23	23	106,243,853	106,209,317	Xq22.3	Xq22.3
LU12_L	3	1	1	106,256,498	84,647,131	1p21.1	1p31.1
LU12_L	5	1	1	106,272,069	97,951,977	1p21.1	1p21.3
LU20_AD	3	23	20	106,296,429	53,968,148	Xq22.3	20q13.2
LU12_L	10	1	1	106,297,094	97,871,373	1p21.1	1p21.3
LU12_L	11	1	1	106,299,328	93,642,323	1p21.1	1p22.1
LU12_L	8	1	1	106,301,054	100,058,938	1p21.1	1p21.2
LU16_L	5	14	2	106,323,172	241,322,019	14q32.33	2q37.3
LU3_AD	5	14	2	106,324,020	241,328,291	14q32.33	2q37.3
LU12_L	9	1	1	106,331,236	106,982,746	1p21.1	1p21.1
LU12_L	11	1	1	106,337,587	96,023,137	1p21.1	1p21.3
LU12_L	21	1	1	106,370,331	84,029,131	1p21.1	1p31.1
LU12_L	8	1	1	106,431,059	83,575,486	1p21.1	1p31.1
LU4_AD	3	1	1	106,438,618	106,471,166	1p21.1	1p21.1
LU4_L	4	10	10	106,443,230	106,472,883	10q25.1	10q25.1
LU12_L	15	1	1	106,450,685	107,929,478	1p21.1	1p13.3
LU12_L	7	1	1	106,452,938	86,683,488	1p21.1	1p22.3
LU4_AD	3	1	1	106,471,166	106,438,618	1p21.1	1p21.1
LU4_L	4	10	10	106,472,883	106,443,230	10q25.1	10q25.1
LU12_L	6	1	1	106,501,351	85,047,875	1p21.1	1p22.3
LU12_L	10	1	1	106,502,128	81,301,404	1p21.1	1p31.1
LU18_L	4	14	16	106,521,894	33,598,487	14q32.33	16p11.2
LU21_L	4	14	16	106,526,778	33,591,730	14q32.33	16p11.2
LU12_L	11	1	1	106,526,925	87,626,913	1p21.1	1p22.3
LU5_L	4	12	14	106,565,692	92,434,297	12q23.3	14q32.12
LU21_L	4	8	8	106,601,469	106,655,395	8q23.1	8q23.1
LU12_L	4	1	1	106,654,685	103,073,944	1p21.1	1p21.1
LU21_L	4	8	8	106,655,395	106,601,469	8q23.1	8q23.1
LU12_L	5	1	1	106,658,761	79,070,650	1p21.1	1p31.1
LU3_AD	3	23	23	106,668,071	106,701,522	Xq22.3	Xq22.3
LU11_AD	4	6	3	106,678,590	38,335,750	6q21	3p22.2
LU4_AD	3	6	23	106,679,619	75,121,255	6q21	Xq13.3
LU7_L	3	6	6	106,680,467	111,452,454	6q21	6q21
LU5_L	3	6	4	106,681,866	139,544,514	6q21	4q31.1
LU3_AD	3	23	23	106,701,522	106,668,071	Xq22.3	Xq22.3
LU16_L	21	1	8	106,718,757	37,434,501	1p21.1	8p11.23
LU16_AD	21	1	8	106,719,090	37,433,898	1p21.1	8p11.23
LU16_L	4	1	1	106,770,336	68,109,403	1p21.1	1p31.3
LU16_AD	9	1	1	106,770,739	68,109,519	1p21.1	1p31.3
LU16_AD	4	1	1	106,771,277	101,804,126	1p21.1	1p21.2

LU16_L	4	1	6	106,773,768	68,129,570	1p21.1	6q12
LU3_AD	3	10	10	106,806,442	106,839,243	10q25.1	10q25.1
LU3_AD	4	3	5	106,822,381	23,298,862	3q13.12	5p14.3
LU3_AD	3	10	10	106,839,243	106,806,442	10q25.1	10q25.1
LU20_AD	4	14	16	106,845,783	32,083,637	14q32.33	16p11.2
LU12_L	4	1	1	106,849,292	99,117,512	1p21.1	1p21.3
LU12_L	7	1	1	106,886,289	97,191,116	1p21.1	1p21.3
LU12_L	3	1	1	106,888,769	73,361,369	1p21.1	1p31.1
LU12_L	14	1	1	106,900,685	91,731,086	1p21.1	1p22.2
LU12_L	5	1	1	106,904,374	87,106,806	1p21.1	1p22.3
LU12_L	4	1	1	106,912,270	85,811,605	1p21.1	1p22.3
LU12_L	6	1	1	106,961,998	91,172,050	1p21.1	1p22.2
LU20_L	3	14	14	106,972,855	107,002,554	14q32.33	14q32.33
LU11_AD	11	12	12	106,975,678	56,654,563	12q23.3	12q13.3
LU11_L	6	12	12	106,975,753	56,654,999	12q23.3	12q13.3
LU12_L	13	1	1	106,981,915	92,006,931	1p21.1	1p22.1
LU12_L	9	1	1	106,982,746	106,331,236	1p21.1	1p21.1
LU20_L	3	14	14	107,002,554	106,972,855	14q32.33	14q32.33
LU3_L	4	5	5	107,023,224	107,056,012	5q21.3	5q21.3
LU12_L	7	1	1	107,044,704	99,462,417	1p21.1	1p21.3
LU12_L	8	1	1	107,049,002	85,051,791	1p21.1	1p22.3
LU3_L	4	5	5	107,056,012	107,023,224	5q21.3	5q21.3
LU11_L	8	12	12	107,061,661	59,204,836	12q23.3	12q14.1
LU18_L	3	5	16	107,062,651	8,993,936	5q21.3	16p13.2
LU11_L	4	12	7	107,093,360	69,746,843	12q23.3	7q11.22
LU4_AD	4	11	11	107,105,003	109,364,233	11q22.3	11q22.3
LU5_L	3	11	11	107,106,514	107,849,979	11q22.3	11q22.3
LU20_AD	3	14	16	107,123,029	31,984,184	14q32.33	16p11.2
LU11_L	4	12	12	107,125,964	56,880,800	12q23.3	12q13.3
LU12_L	6	1	1	107,142,592	98,085,637	1p21.1	1p21.3
LU11_L	4	12	12	107,144,272	56,554,024	12q23.3	12q13.2
LU11_L	3	14	14	107,153,008	107,201,270	14q32.33	14q32.33
LU11_AD	9	14	14	107,153,105	107,200,223	14q32.33	14q32.33
LU11_L	8	12	12	107,153,347	47,846,431	12q23.3	12q13.11
LU11_AD	5	14	14	107,153,611	107,204,575	14q32.33	14q32.33
LU11_L	4	12	18	107,173,990	29,335,194	12q23.3	18q12.1
LU12_L	11	1	1	107,174,538	109,869,570	1p21.1	1p13.3
LU18_L	3	14	15	107,180,208	20,843,852	14q32.33	15q11.2
LU11_AD	9	14	14	107,200,223	107,153,105	14q32.33	14q32.33
LU11_L	3	14	14	107,201,270	107,153,008	14q32.33	14q32.33
LU11_AD	5	14	14	107,204,575	107,153,611	14q32.33	14q32.33
LU12_L	9	1	1	107,228,123	95,868,980	1p13.3	1p21.3
LU11_L	22	12	12	107,271,757	56,573,324	12q23.3	12q13.2
LU12_L	6	1	1	107,303,133	79,776,731	1p13.3	1p31.1

LU11_L	13	12	18	107,331,037	31,383,761	12q23.3	18q12.1
LU11_L	6	12	12	107,370,009	62,226,487	12q23.3	12q14.1
LU12_L	4	1	1	107,373,725	74,464,342	1p13.3	1p31.1
LU8_L	3	10	10	107,446,076	23,423,188	10q25.1	10p12.2
LU11_L	14	12	18	107,450,035	31,316,914	12q23.3	18q12.1
LU12_L	7	1	1	107,463,135	96,576,182	1p13.3	1p21.3
LU12_L	7	1	1	107,484,055	96,938,289	1p13.3	1p21.3
LU12_L	9	1	1	107,486,532	81,243,715	1p13.3	1p31.1
LU4_AD	3	10	2	107,486,851	41,608,064	10q25.1	2p22.1
LU12_L	9	1	1	107,487,533	97,454,693	1p13.3	1p21.3
LU7_L	4	10	1	107,492,730	105,138,894	10q25.1	1p21.1
LU12_L	35	8	8	107,502,778	142,930,740	8q23.1	8q24.3
LU12_L	8	1	1	107,523,885	81,754,771	1p13.3	1p31.1
LU5_AD	3	23	23	107,530,945	107,563,854	Xq22.3	Xq22.3
LU12_L	9	1	1	107,552,149	86,590,179	1p13.3	1p22.3
LU12_L	5	1	1	107,557,437	82,339,929	1p13.3	1p31.1
LU5_AD	3	23	23	107,563,854	107,530,945	Xq22.3	Xq22.3
LU11_AD	10	12	18	107,570,265	32,981,552	12q23.3	18q12.2
LU12_L	3	12	5	107,608,536	96,647,295	12q23.3	5q15
LU20_L	3	11	11	107,628,279	107,669,939	11q22.3	11q22.3
LU6_L	3	4	4	107,640,310	107,683,826	4q24	4q24
LU20_L	3	11	11	107,669,939	107,628,279	11q22.3	11q22.3
LU6_L	3	4	4	107,683,826	107,640,310	4q24	4q24
LU12_L	5	1	1	107,690,380	95,098,487	1p13.3	1p21.3
LU12_L	9	1	1	107,692,658	96,682,961	1p13.3	1p21.3
LU12_L	11	1	1	107,749,931	74,406,487	1p13.3	1p31.1
LU12_L	12	1	1	107,750,664	74,308,228	1p13.3	1p31.1
LU12_L	9	1	1	107,766,523	85,344,090	1p13.3	1p22.3
LU12_L	11	1	1	107,786,062	80,249,384	1p13.3	1p31.1
LU12_L	15	1	1	107,794,820	77,809,037	1p13.3	1p31.1
LU12_L	20	1	1	107,797,298	98,673,433	1p13.3	1p21.3
LU12_L	5	1	1	107,821,039	107,890,346	1p13.3	1p13.3
LU12_L	13	1	1	107,825,228	79,691,456	1p13.3	1p31.1
LU5_L	3	11	11	107,849,979	107,106,514	11q22.3	11q22.3
LU8_AD	3	5	1	107,888,882	232,366,778	5q21.3	1q42.2
LU12_L	5	1	1	107,890,346	107,821,039	1p13.3	1p13.3
LU12_L	18	1	1	107,890,374	100,095,269	1p13.3	1p21.2
LU15_L	4	5	5	107,906,620	103,403,494	5q21.3	5q21.2
LU12_L	10	1	1	107,919,016	87,049,729	1p13.3	1p22.3
LU12_L	8	1	1	107,927,617	78,830,147	1p13.3	1p31.1
LU12_L	15	1	1	107,929,478	106,450,685	1p13.3	1p21.1
LU12_L	9	1	1	107,932,861	81,649,055	1p13.3	1p31.1
LU12_L	17	1	1	107,966,675	83,183,411	1p13.3	1p31.1
LU12_L	9	1	1	107,974,197	95,334,992	1p13.3	1p21.3

LU11_L	12	12	12	108,022,549	58,520,885	12q23.3	12q14.1
LU11_L	3	12	12	108,052,967	118,993,403	12q23.3	12q24.23
LU11_L	11	12	12	108,059,141	118,982,092	12q23.3	12q24.23
LU11_AD	38	12	12	108,061,434	118,980,076	12q23.3	12q24.23
LU7_L	3	4	4	108,143,544	108,183,695	4q25	4q25
LU7_L	3	4	4	108,183,695	108,143,544	4q25	4q25
LU12_L	8	1	1	108,209,334	74,557,423	1p13.3	1p31.1
LU5_AD	3	7	7	108,252,276	108,284,959	7q31.1	7q31.1
LU12_L	17	8	8	108,277,422	50,500,555	8q23.1	8q11.21
LU5_AD	3	7	7	108,284,959	108,252,276	7q31.1	7q31.1
LU20_L	3	4	8	108,337,795	66,039,324	4q25	8q13.1
LU12_L	9	1	1	108,343,202	96,972,984	1p13.3	1p21.3
LU3_L	3	1	1	108,413,215	108,445,042	1p13.3	1p13.3
LU3_L	3	1	1	108,445,042	108,413,215	1p13.3	1p13.3
LU3_AD	3	13	13	108,451,970	108,492,102	13q33.3	13q33.3
LU3_AD	3	13	13	108,492,102	108,451,970	13q33.3	13q33.3
LU4_AD	4	9	19	108,554,117	41,966,048	9q31.2	19q13.2
LU4_AD	3	9	13	108,557,895	62,517,155	9q31.2	13q21.31
LU12_L	9	1	1	108,558,982	88,672,285	1p13.3	1p22.2
LU12_L	8	1	1	108,559,142	85,637,603	1p13.3	1p22.3
LU7_L	3	8	9	108,585,374	14,966,969	8q23.1	9p22.3
LU7_AD	5	8	19	108,585,571	42,018,474	8q23.1	19q13.2
LU4_AD	5	8	8	108,588,606	29,158,324	8q23.1	8p12
LU12_L	6	1	1	108,590,287	74,994,103	1p13.3	1p31.1
LU12_L	6	1	1	108,593,537	76,563,353	1p13.3	1p31.1
LU12_L	13	1	1	108,613,681	108,649,514	1p13.3	1p13.3
LU12_L	16	8	8	108,614,004	94,856,218	8q23.1	8q22.1
LU8_L	4	11	11	108,625,017	108,658,974	11q22.3	11q22.3
LU12_L	10	1	1	108,628,252	99,944,725	1p13.3	1p21.2
LU12_L	17	1	1	108,644,060	92,029,126	1p13.3	1p22.1
LU12_L	7	1	1	108,645,357	100,347,708	1p13.3	1p21.2
LU12_L	13	1	1	108,649,514	108,613,681	1p13.3	1p13.3
LU8_L	4	11	11	108,658,974	108,625,017	11q22.3	11q22.3
LU5_L	3	2	2	108,662,169	108,708,726	2q12.3	2q12.3
LU12_L	17	1	1	108,665,028	90,941,331	1p13.3	1p22.2
LU5_L	3	2	2	108,708,726	108,662,169	2q12.3	2q12.3
LU12_L	9	1	1	108,747,688	86,853,860	1p13.3	1p22.3
LU5_AD	3	1	1	108,748,882	108,925,974	1p13.3	1p13.3
LU4_AD	3	1	1	108,766,561	147,709,838	1p13.3	1q21.2
LU3_L	3	13	13	108,807,148	108,840,910	13q33.3	13q33.3
LU3_L	3	13	13	108,840,910	108,807,148	13q33.3	13q33.3
LU3_AD	3	2	2	108,906,783	108,942,635	2q12.3	2q12.3
LU12_L	10	1	1	108,916,991	90,842,396	1p13.3	1p22.2
LU20_AD	3	1	1	108,919,674	146,051,333	1p13.3	1q21.1

LU5_AD	3	1	1	108,925,974	108,748,882	1p13.3	1p13.3
LU12_L	8	1	1	108,933,648	109,290,550	1p13.3	1p13.3
LU4_L	3	7	2	108,939,514	184,368,216	7q31.1	2q32.1
LU3_AD	3	2	2	108,942,635	108,906,783	2q12.3	2q12.3
LU3_AD	3	7	7	108,950,915	108,983,247	7q31.1	7q31.1
LU20_AD	3	11	11	108,975,665	109,008,138	11q22.3	11q22.3
LU3_AD	3	7	7	108,983,247	108,950,915	7q31.1	7q31.1
LU20_AD	3	11	11	109,008,138	108,975,665	11q22.3	11q22.3
LU12_L	12	1	1	109,040,833	109,319,397	1p13.3	1p13.3
LU12_L	3	1	1	109,044,836	89,991,502	1p13.3	1p22.2
LU12_L	24	1	1	109,045,596	109,822,962	1p13.3	1p13.3
LU12_L	9	1	1	109,063,732	88,181,342	1p13.3	1p22.3
LU5_L	3	5	5	109,098,309	109,132,618	5q21.3	5q21.3
LU5_L	3	5	5	109,132,618	109,098,309	5q21.3	5q21.3
LU16_L	3	2	23	109,140,491	114,775,443	2q12.3	Xq23
LU12_L	7	1	1	109,145,065	78,688,784	1p13.3	1p31.1
LU18_L	4	2	20	109,145,111	58,130,742	2q12.3	20q13.32
LU12_L	11	1	1	109,150,600	74,692,751	1p13.3	1p31.1
LU12_L	13	1	1	109,201,996	84,037,861	1p13.3	1p31.1
LU12_L	7	1	1	109,206,937	100,939,627	1p13.3	1p21.2
LU12_L	4	1	1	109,207,005	76,794,180	1p13.3	1p31.1
LU12_L	8	1	1	109,290,550	108,933,648	1p13.3	1p13.3
LU5_L	30	8	8	109,295,989	109,417,481	8q23.1	8q23.1
LU5_AD	19	8	8	109,296,509	109,418,212	8q23.1	8q23.1
LU12_L	3	1	1	109,296,882	78,497,350	1p13.3	1p31.1
LU12_L	12	1	1	109,319,397	109,040,833	1p13.3	1p13.3
LU4_AD	4	11	11	109,364,233	107,105,003	11q22.3	11q22.3
LU12_L	7	1	1	109,375,464	94,305,322	1p13.3	1p22.1
LU12_L	15	1	1	109,389,522	87,724,065	1p13.3	1p22.3
LU5_L	30	8	8	109,417,481	109,295,989	8q23.1	8q23.1
LU5_AD	19	8	8	109,418,212	109,296,509	8q23.1	8q23.1
LU12_L	13	1	1	109,446,540	96,823,140	1p13.3	1p21.3
LU12_L	7	1	1	109,463,965	96,738,718	1p13.3	1p21.3
LU12_L	9	1	1	109,539,020	83,440,557	1p13.3	1p31.1
LU12_L	7	1	1	109,543,198	93,788,360	1p13.3	1p22.1
LU12_L	10	1	1	109,543,641	88,607,029	1p13.3	1p22.2
LU18_L	3	11	11	109,576,502	109,609,634	11q22.3	11q22.3
LU12_L	5	1	1	109,588,301	79,224,864	1p13.3	1p31.1
LU18_L	3	11	11	109,609,634	109,576,502	11q22.3	11q22.3
LU12_L	5	1	1	109,623,435	89,457,151	1p13.3	1p22.2
LU12_L	5	1	1	109,704,969	92,829,034	1p13.3	1p22.1
LU12_L	6	1	1	109,726,256	89,097,312	1p13.3	1p22.2
LU12_L	11	1	1	109,728,562	83,865,613	1p13.3	1p31.1
LU20_AD	4	13	13	109,745,511	31,822,811	13q33.3	13q12.3

LU12_L	8	1	1	109,791,643	91,273,341	1p13.3	1p22.2
LU12_L	18	1	1	109,803,850	80,049,315	1p13.3	1p31.1
LU11_AD	6	1	1	109,815,215	47,596,788	1p13.3	1p33
LU11_L	4	1	1	109,815,591	47,596,966	1p13.3	1p33
LU11_L	5	1	1	109,818,885	17,051,882	1p13.3	1p36.13
LU11_AD	7	1	1	109,819,374	17,050,568	1p13.3	1p36.13
LU12_L	9	1	1	109,820,768	88,504,721	1p13.3	1p22.2
LU11_AD	17	1	13	109,822,555	30,063,596	1p13.3	13q12.3
LU12_L	24	1	1	109,822,962	109,045,596	1p13.3	1p13.3
LU11_L	14	1	13	109,823,005	30,063,929	1p13.3	13q12.3
LU12_L	5	1	1	109,863,977	79,952,298	1p13.3	1p31.1
LU12_L	11	1	1	109,869,570	107,174,538	1p13.3	1p21.1
LU3_AD	3	8	8	109,875,594	109,922,665	8q23.1	8q23.1
LU12_L	9	1	1	109,894,766	100,167,335	1p13.3	1p21.2
LU3_AD	4	3	3	109,898,640	109,929,222	3q13.13	3q13.13
LU12_L	14	1	1	109,907,754	101,543,302	1p13.3	1p21.2
LU12_L	16	1	1	109,914,678	88,841,459	1p13.3	1p22.2
LU12_L	11	1	1	109,919,698	73,231,885	1p13.3	1p31.1
LU3_AD	3	8	8	109,922,665	109,875,594	8q23.1	8q23.1
LU3_AD	4	3	3	109,929,222	109,898,640	3q13.13	3q13.13
LU16_L	4	1	1	109,966,678	103,300,360	1p13.3	1p21.1
LU16_AD	9	1	1	109,968,522	98,297,652	1p13.3	1p21.3
LU16_L	5	1	1	109,969,104	98,296,336	1p13.3	1p21.3
LU4_L	3	7	7	110,019,202	110,058,580	7q31.1	7q31.1
LU4_L	3	7	7	110,058,580	110,019,202	7q31.1	7q31.1
LU11_L	7	1	1	110,091,892	16,571,575	1p13.3	1p36.13
LU11_AD	10	1	1	110,092,118	16,571,538	1p13.3	1p36.13
LU3_AD	3	13	13	110,143,315	110,173,350	13q33.3	13q33.3
LU11_AD	11	1	1	110,167,882	16,555,148	1p13.3	1p36.13
LU11_L	5	1	1	110,171,291	16,554,128	1p13.3	1p36.13
LU3_AD	3	13	13	110,173,350	110,143,315	13q33.3	13q33.3
LU4_AD	4	6	1	110,198,905	170,909,985	6q21	1q24.3
LU4_L	4	4	4	110,234,249	110,269,821	4q25	4q25
LU4_AD	3	23	23	110,265,394	110,306,099	Xq23	Xq23
LU4_AD	3	11	19	110,267,837	5,164,137	11q22.3	19p13.3
LU4_L	4	4	4	110,269,821	110,234,249	4q25	4q25
LU5_L	3	11	5	110,271,391	72,223,141	11q22.3	5q13.2
LU4_AD	5	11	5	110,271,523	114,323,641	11q22.3	5q22.3
LU4_AD	3	23	23	110,306,099	110,265,394	Xq23	Xq23
LU18_AD	5	23	23	110,344,069	110,378,699	Xq23	Xq23
LU18_AD	5	23	23	110,378,699	110,344,069	Xq23	Xq23
LU18_AD	3	9	9	110,494,950	122,365,712	9q31.2	9q33.1
LU18_AD	5	9	9	110,496,624	122,876,731	9q31.2	9q33.2
LU3_L	3	11	11	110,533,049	110,566,934	11q23.1	11q23.1

LU21_AD	4	12	20	110,540,948	36,394,284	12q24.11	20q11.23
LU3_L	3	11	11	110,566,934	110,533,049	11q23.1	11q23.1
LU3_AD	3	9	9	110,658,782	110,689,774	9q31.2	9q31.2
LU20_AD	3	3	3	110,664,936	110,697,122	3q13.13	3q13.13
LU3_AD	3	9	9	110,689,774	110,658,782	9q31.2	9q31.2
LU20_AD	3	3	3	110,697,122	110,664,936	3q13.13	3q13.13
LU21_AD	4	8	8	110,786,480	110,824,533	8q23.2	8q23.2
LU8_L	3	10	4	110,805,606	103,161,983	10q25.1	4q24
LU3_AD	3	10	3	110,805,712	163,520,577	10q25.1	3q26.1
LU18_L	5	6	12	110,820,567	103,059,319	6q21	12q23.2
LU21_AD	4	8	8	110,824,533	110,786,480	8q23.2	8q23.2
LU6_L	4	6	12	110,824,879	103,057,126	6q21	12q23.2
LU5_L	3	13	12	110,828,751	94,222,530	13q34	12q22
LU18_L	6	9	9	110,829,355	112,690,596	9q31.2	9q31.3
LU20_AD	3	2	2	110,843,505	95,660,622	2q13	2q11.1
LU4_AD	4	23	3	110,861,844	122,382,018	Xq23	3q21.1
LU12_L	9	8	8	110,927,832	128,452,258	8q23.2	8q24.21
LU4_AD	3	9	9	110,954,946	110,989,289	9q31.2	9q31.2
LU4_AD	3	9	9	110,989,289	110,954,946	9q31.2	9q31.2
LU18_AD	3	23	23	111,102,966	79,570,979	Xq23	Xq21.1
LU20_AD	4	5	5	111,105,621	111,138,045	5q22.1	5q22.1
LU20_AD	4	5	5	111,138,045	111,105,621	5q22.1	5q22.1
LU3_AD	3	3	3	111,231,785	111,285,959	3q13.13	3q13.13
LU11_AD	14	12	12	111,284,239	67,478,791	12q24.11	12q14.3
LU3_AD	3	3	3	111,285,959	111,231,785	3q13.13	3q13.13
LU11_L	10	12	12	111,286,019	67,479,148	12q24.11	12q14.3
LU7_L	3	6	6	111,452,454	106,680,467	6q21	6q21
LU18_L	3	1	1	111,499,700	111,529,499	1p13.3	1p13.3
LU18_L	3	1	1	111,529,499	111,499,700	1p13.3	1p13.3
LU18_L	3	9	9	111,530,158	111,566,730	9q31.3	9q31.3
LU18_L	3	9	9	111,566,730	111,530,158	9q31.3	9q31.3
LU8_L	4	4	4	111,608,470	111,639,238	4q25	4q25
LU8_L	4	4	4	111,639,238	111,608,470	4q25	4q25
LU18_L	12	9	9	111,658,012	122,365,866	9q31.3	9q33.1
LU3_L	3	13	8	111,707,786	55,841,847	13q34	8q12.1
LU3_L	3	13	1	111,843,085	118,774,248	13q34	1p12
LU7_AD	3	13	6	111,843,214	38,590,473	13q34	6p21.2
LU12_L	4	13	6	111,843,771	72,498,992	13q34	6q13
LU3_L	3	13	5	111,847,040	96,646,444	13q34	5q15
LU12_L	3	13	17	111,849,296	52,406,044	13q34	17q22
LU3_L	3	8	1	111,890,730	232,337,276	8q23.2	1q42.2
LU20_AD	6	9	9	111,940,263	112,032,858	9q31.3	9q31.3
LU20_AD	5	3	25	112,023,452	1,562,603	3q13.2	25
LU20_AD	6	9	9	112,032,858	111,940,263	9q31.3	9q31.3

LU11_L	12	12	12	112,039,229	49,881,779	12q24.12	12q13.12
LU11_AD	7	12	12	112,039,336	49,883,168	12q24.12	12q13.12
LU11_L	19	12	12	112,044,090	49,965,786	12q24.12	12q13.12
LU11_AD	5	12	12	112,044,939	49,966,015	12q24.12	12q13.12
LU7_L	4	11	5	112,053,491	37,505,772	11q23.1	5p13.2
LU16_AD	3	11	5	112,055,414	37,504,834	11q23.1	5p13.2
LU11_AD	6	12	12	112,075,877	49,558,197	12q24.12	12q13.12
LU20_AD	3	9	9	112,170,358	112,204,349	9q31.3	9q31.3
LU20_AD	3	9	9	112,204,349	112,170,358	9q31.3	9q31.3
LU11_AD	16	12	12	112,241,520	119,250,972	12q24.12	12q24.23
LU11_L	10	12	12	112,245,347	119,249,102	12q24.12	12q24.23
LU8_AD	3	3	11	112,245,854	58,432,327	3q13.2	11q12.1
LU7_AD	3	2	2	112,352,205	112,482,637	2q13	2q13
LU6_L	6	11	11	112,393,785	101,193,389	11q23.1	11q22.1
LU18_L	3	1	1	112,407,389	112,457,064	1p13.2	1p13.2
LU18_L	3	1	1	112,457,064	112,407,389	1p13.2	1p13.2
LU7_AD	3	2	2	112,482,637	112,352,205	2q13	2q13
LU6_L	3	1	1	112,504,422	112,543,477	1p13.2	1p13.2
LU20_AD	12	9	9	112,526,476	112,558,572	9q31.3	9q31.3
LU6_L	3	1	1	112,543,477	112,504,422	1p13.2	1p13.2
LU20_AD	12	9	9	112,558,572	112,526,476	9q31.3	9q31.3
LU3_AD	3	2	2	112,690,072	112,723,510	2q13	2q13
LU18_L	6	9	9	112,690,596	110,829,355	9q31.3	9q31.2
LU3_L	3	5	5	112,700,064	112,730,560	5q22.2	5q22.2
LU3_AD	3	2	2	112,723,510	112,690,072	2q13	2q13
LU3_L	3	5	5	112,730,560	112,700,064	5q22.2	5q22.2
LU21_AD	3	3	4	112,766,010	58,034,859	3q13.2	4q12
LU3_L	3	11	3	112,798,588	46,469,829	11q23.2	3p21.31
LU3_L	3	8	8	112,983,521	113,019,643	8q23.3	8q23.3
LU3_L	3	8	8	113,019,643	112,983,521	8q23.3	8q23.3
LU12_L	3	5	6	113,049,663	29,847,070	5q22.2	6p22.1
LU18_AD	5	6	6	113,071,167	113,112,899	6q21	6q21
LU3_AD	3	23	23	113,076,023	113,116,027	Xq23	Xq23
LU18_AD	5	6	6	113,112,899	113,071,167	6q21	6q21
LU3_AD	3	23	23	113,116,027	113,076,023	Xq23	Xq23
LU6_AD	6	11	1	113,116,372	877,326	11q23.2	1p36.33
LU6_L	7	11	1	113,117,768	876,006	11q23.2	1p36.33
LU7_AD	4	2	2	113,142,708	88,082,236	2q13	2p11.2
LU6_AD	12	11	11	113,175,506	66,131,639	11q23.2	11q13.2
LU6_L	8	11	11	113,175,638	66,133,937	11q23.2	11q13.2
LU14_AD	3	4	4	113,301,511	113,336,097	4q25	4q25
LU14_AD	3	4	4	113,336,097	113,301,511	4q25	4q25
LU20_L	3	23	23	113,336,985	113,371,989	Xq23	Xq23
LU4_L	4	1	1	113,366,841	227,868,163	1p13.2	1q42.13

LU20_L	3	23	23	113,371,989	113,336,985	Xq23	Xq23
LU12_L	5	5	11	113,485,802	43,183,867	5q22.3	11p12
LU3_L	3	1	1	113,509,640	179,035,613	1p13.2	1q25.2
LU8_L	3	6	2	113,543,482	46,985,656	6q21	2p21
LU7_AD	4	6	2	113,545,109	46,984,013	6q21	2p21
LU3_L	3	7	7	113,583,415	113,621,839	7q31.1	7q31.1
LU3_L	3	7	7	113,621,839	113,583,415	7q31.1	7q31.1
LU6_L	3	5	5	113,691,376	113,722,351	5q22.3	5q22.3
LU6_L	3	5	5	113,722,351	113,691,376	5q22.3	5q22.3
LU14_L	6	5	5	113,776,564	139,661,692	5q22.3	5q31.3
LU14_AD	3	5	5	113,780,255	139,663,074	5q22.3	5q31.3
LU3_L	3	4	4	113,854,456	113,888,272	4q25	4q25
LU11_AD	3	2	2	113,881,724	118,850,594	2q13	2q14.2
LU3_L	3	4	4	113,888,272	113,854,456	4q25	4q25
LU8_AD	3	1	12	113,992,990	52,106,421	1p13.2	12q13.13
LU20_AD	4	1	6	113,993,045	48,116,548	1p13.2	6p12.3
LU18_L	4	8	4	114,025,858	82,178,454	8q23.3	4q21.21
LU18_L	3	11	15	114,219,934	51,651,580	11q23.2	15q21.2
LU4_AD	5	5	11	114,323,641	110,271,523	5q22.3	11q22.3
LU20_AD	4	5	11	114,329,531	101,103,695	5q22.3	11q22.1
LU5_L	4	5	11	114,331,406	101,101,925	5q22.3	11q22.1
LU18_L	3	5	11	114,332,082	101,105,052	5q22.3	11q22.1
LU14_L	3	5	7	114,333,254	91,081,231	5q22.3	7q21.13
LU7_L	3	23	23	114,338,861	114,371,507	Xq23	Xq23
LU18_L	3	12	12	114,366,194	114,400,483	12q24.21	12q24.21
LU7_L	3	23	23	114,371,507	114,338,861	Xq23	Xq23
LU3_L	5	5	18	114,373,650	10,216,442	5q22.3	18p11.22
LU18_L	3	12	12	114,400,483	114,366,194	12q24.21	12q24.21
LU18_L	3	5	2	114,417,304	209,259,270	5q22.3	2q34
LU7_L	3	8	12	114,523,876	68,159,149	8q23.3	12q15
LU3_L	3	7	7	114,704,472	114,734,269	7q31.2	7q31.2
LU3_L	3	7	7	114,734,269	114,704,472	7q31.2	7q31.2
LU11_AD	76	12	20	114,742,337	55,558,391	12q24.21	20q13.31
LU11_L	30	12	20	114,742,365	55,558,540	12q24.21	20q13.31
LU3_L	4	23	1	114,773,210	227,872,617	Xq23	1q42.13
LU16_L	3	23	2	114,775,443	109,140,491	Xq23	2q12.3
LU7_AD	6	13	13	114,837,377	114,987,635	13q34	13q34
LU7_L	12	13	13	114,837,644	114,987,049	13q34	13q34
LU8_L	3	3	3	114,893,738	114,930,311	3q13.31	3q13.31
LU4_L	3	10	10	114,914,623	114,951,748	10q25.3	10q25.3
LU8_L	3	3	3	114,930,311	114,893,738	3q13.31	3q13.31
LU21_L	3	2	2	114,950,974	114,983,716	2q14.1	2q14.1
LU4_L	3	10	10	114,951,748	114,914,623	10q25.3	10q25.3
LU12_L	4	4	12	114,971,955	51,299,558	4q26	12q13.12

LU21_L	3	2	2	114,983,716	114,950,974	2q14.1	2q14.1
LU7_L	12	13	13	114,987,049	114,837,644	13q34	13q34
LU7_AD	6	13	13	114,987,635	114,837,377	13q34	13q34
LU12_L	6	23	12	115,033,923	68,941,175	Xq23	12q15
LU18_AD	5	23	12	115,033,933	68,940,021	Xq23	12q15
LU3_L	5	23	12	115,035,656	68,938,832	Xq23	12q15
LU11_L	6	12	12	115,092,357	56,968,493	12q24.21	12q13.3
LU18_L	3	23	1	115,126,707	104,923,957	Xq23	1p21.1
LU11_L	3	12	12	115,126,749	115,303,731	12q24.21	12q24.21
LU11_L	8	12	12	115,138,941	56,965,073	12q24.21	12q13.3
LU11_L	7	12	12	115,299,675	68,268,416	12q24.21	12q15
LU11_L	3	12	12	115,303,731	115,126,749	12q24.21	12q24.21
LU4_AD	3	23	7	115,375,840	82,264,352	Xq23	7q21.11
LU11_AD	15	12	12	115,608,000	48,674,703	12q24.21	12q13.11
LU11_L	4	12	12	115,609,584	48,675,419	12q24.21	12q13.11
LU11_AD	9	12	18	115,609,764	36,557,080	12q24.21	18q12.2
LU15_AD	3	23	1	115,875,205	89,393,875	Xq23	1p22.2
LU20_L	3	8	8	115,939,612	115,970,896	8q23.3	8q23.3
LU20_L	3	8	8	115,970,896	115,939,612	8q23.3	8q23.3
LU6_L	3	8	8	116,021,739	116,056,765	8q23.3	8q23.3
LU6_L	3	8	8	116,056,765	116,021,739	8q23.3	8q23.3
LU5_L	3	10	10	116,107,600	116,146,971	10q25.3	10q25.3
LU5_L	3	10	10	116,146,971	116,107,600	10q25.3	10q25.3
LU3_L	3	2	2	116,161,727	116,200,058	2q14.1	2q14.1
LU3_L	3	2	2	116,200,058	116,161,727	2q14.1	2q14.1
LU3_L	3	11	11	116,241,101	116,283,714	11q23.3	11q23.3
LU3_L	3	4	4	116,274,857	116,305,244	4q26	4q26
LU7_L	3	6	6	116,278,588	116,311,546	6q22.1	6q22.1
LU3_L	3	11	11	116,283,714	116,241,101	11q23.3	11q23.3
LU4_L	3	3	1	116,292,089	194,895,556	3q13.31	1q31.3
LU3_L	3	4	4	116,305,244	116,274,857	4q26	4q26
LU7_L	3	6	6	116,311,546	116,278,588	6q22.1	6q22.1
LU3_AD	3	2	2	116,324,386	116,355,959	2q14.1	2q14.1
LU3_AD	3	2	2	116,355,959	116,324,386	2q14.1	2q14.1
LU3_L	3	3	3	116,363,398	172,138,482	3q13.31	3q26.31
LU12_L	3	6	6	116,409,227	116,439,879	6q22.1	6q22.1
LU12_L	20	8	8	116,426,853	53,473,729	8q23.3	8q11.23
LU12_L	3	6	6	116,439,879	116,409,227	6q22.1	6q22.1
LU4_L	25	23	23	116,482,135	116,584,801	Xq23	Xq24
LU4_AD	24	23	23	116,490,968	116,578,753	Xq23	Xq24
LU4_AD	24	23	23	116,578,753	116,490,968	Xq24	Xq23
LU4_L	25	23	23	116,584,801	116,482,135	Xq24	Xq23
LU18_L	3	5	1	116,635,892	235,304,418	5q23.1	1q42.3
LU3_L	3	23	23	116,832,463	116,868,335	Xq24	Xq24

LU3_L	3	23	23	116,868,335	116,832,463	Xq24	Xq24
LU4_AD	3	4	1	116,877,557	171,566,215	4q26	1q24.3
LU11_AD	20	1	13	116,890,558	21,293,961	1p13.1	13q12.11
LU11_L	8	1	13	116,893,368	21,292,877	1p13.1	13q12.11
LU3_L	3	3	3	117,001,964	117,031,723	3q13.31	3q13.31
LU3_AD	6	8	8	117,008,313	117,046,076	8q23.3	8q23.3
LU12_AD	3	12	9	117,013,473	19,461,221	12q24.22	9p22.1
LU3_L	3	3	3	117,031,723	117,001,964	3q13.31	3q13.31
LU3_AD	6	8	8	117,046,076	117,008,313	8q23.3	8q23.3
LU7_L	6	3	3	117,087,916	30,481,572	3q13.31	3p24.1
LU4_L	3	23	23	117,117,024	117,147,280	Xq24	Xq24
LU4_L	3	23	23	117,147,280	117,117,024	Xq24	Xq24
LU11_AD	11	12	12	117,347,411	48,514,791	12q24.22	12q13.11
LU4_AD	3	6	6	117,357,813	117,387,656	6q22.1	6q22.1
LU4_AD	3	6	6	117,387,656	117,357,813	6q22.1	6q22.1
LU18_AD	4	23	5	117,428,878	24,307,105	Xq24	5p14.2
LU3_L	3	3	3	117,576,757	117,610,739	3q13.32	3q13.32
LU3_L	3	3	3	117,610,739	117,576,757	3q13.32	3q13.32
LU18_L	3	6	12	117,753,060	69,050,387	6q22.1	12q15
LU8_L	4	1	1	117,995,981	118,034,219	1p12	1p12
LU8_L	4	1	1	118,034,219	117,995,981	1p12	1p12
LU20_AD	3	1	1	118,061,808	118,093,154	1p12	1p12
LU20_AD	3	1	1	118,093,154	118,061,808	1p12	1p12
LU3_L	3	9	9	118,096,485	118,132,138	9q33.1	9q33.1
LU3_L	3	9	9	118,132,138	118,096,485	9q33.1	9q33.1
LU5_L	3	4	5	118,174,192	7,260,207	4q26	5p15.31
LU14_L	3	12	12	118,201,330	118,231,756	12q24.23	12q24.23
LU20_AD	3	5	3	118,205,580	73,868,393	5q23.1	3p13
LU14_L	3	12	12	118,231,756	118,201,330	12q24.23	12q24.23
LU3_L	4	11	11	118,250,242	118,280,610	11q23.3	11q23.3
LU3_L	4	11	11	118,280,610	118,250,242	11q23.3	11q23.3
LU18_L	3	8	8	118,717,359	118,749,152	8q24.11	8q24.11
LU18_L	3	8	8	118,749,152	118,717,359	8q24.11	8q24.11
LU21_AD	3	1	4	118,773,236	102,554,044	1p12	4q24
LU3_L	3	1	13	118,774,248	111,843,085	1p12	13q34
LU18_AD	5	6	6	118,812,107	118,851,699	6q22.31	6q22.31
LU11_AD	3	2	2	118,850,594	113,881,724	2q14.2	2q13
LU18_AD	5	6	6	118,851,699	118,812,107	6q22.31	6q22.31
LU12_AD	4	6	19	118,905,200	28,370,893	6q22.31	19q11
LU12_L	5	12	23	118,918,914	42,628,842	12q24.23	Xp11.3
LU11_AD	38	12	12	118,980,076	108,061,434	12q24.23	12q23.3
LU11_L	11	12	12	118,982,092	108,059,141	12q24.23	12q23.3
LU11_L	3	12	12	118,993,403	108,052,967	12q24.23	12q23.3
LU4_L	3	6	6	119,121,459	119,151,674	6q22.31	6q22.31

LU4_L	3	6	6	119,151,674	119,121,459	6q22.31	6q22.31
LU18_AD	3	2	2	119,161,792	119,195,759	2q14.2	2q14.2
LU18_AD	3	2	2	119,195,759	119,161,792	2q14.2	2q14.2
LU12_AD	3	23	25	119,214,678	1,559,484	Xq24	25
LU3_AD	4	8	6	119,240,584	57,254,007	8q24.12	6p11.2
LU11_L	10	12	12	119,249,102	112,245,347	12q24.23	12q24.12
LU11_AD	16	12	12	119,250,972	112,241,520	12q24.23	12q24.12
LU20_AD	3	2	2	119,276,148	119,313,194	2q14.2	2q14.2
LU16_AD	3	23	7	119,283,273	50,109,580	Xq24	7p12.2
LU5_AD	3	10	10	119,290,454	119,345,074	10q26.11	10q26.11
LU20_AD	3	2	2	119,313,194	119,276,148	2q14.2	2q14.2
LU5_AD	3	10	10	119,345,074	119,290,454	10q26.11	10q26.11
LU21_L	4	2	2	119,479,433	119,511,443	2q14.2	2q14.2
LU21_L	4	2	2	119,511,443	119,479,433	2q14.2	2q14.2
LU7_AD	3	4	19	119,524,869	225,556	4q26	19p13.3
LU12_L	3	4	19	119,539,508	211,211	4q26	19p13.3
LU20_L	3	9	9	119,564,322	119,620,405	9q33.1	9q33.1
LU6_L	3	4	2	119,596,773	243,152,897	4q26	2q37.3
LU6_AD	3	4	2	119,597,340	243,154,236	4q26	2q37.3
LU20_L	3	9	9	119,620,405	119,564,322	9q33.1	9q33.1
LU12_L	12	8	8	119,626,357	121,070,333	8q24.12	8q24.12
LU18_AD	3	2	6	119,709,605	89,432,343	2q14.2	6q15
LU20_AD	3	1	10	119,719,571	5,097,194	1p12	10p15.1
LU20_AD	3	1	2	119,724,618	33,883,635	1p12	2p22.3
LU20_AD	4	2	2	119,860,918	119,891,171	2q14.2	2q14.2
LU20_AD	4	2	2	119,891,171	119,860,918	2q14.2	2q14.2
LU18_AD	6	9	9	119,904,908	122,367,382	9q33.1	9q33.1
LU18_L	10	9	9	119,905,281	122,367,794	9q33.1	9q33.1
LU4_AD	14	1	1	119,954,506	86,519,424	1p12	1p22.3
LU4_L	6	1	1	119,955,980	86,518,388	1p12	1p22.3
LU3_L	7	10	8	119,981,475	61,597,624	10q26.11	8q12.2
LU18_L	3	5	2	120,034,275	207,670,846	5q23.1	2q33.3
LU15_L	10	10	9	120,042,093	98,923,174	10q26.11	9q22.32
LU12_AD	3	10	10	120,086,628	120,128,924	10q26.11	10q26.11
LU12_AD	3	10	10	120,128,924	120,086,628	10q26.11	10q26.11
LU21_AD	3	2	4	120,134,078	165,671,337	2q14.2	4q32.3
LU8_L	4	1	1	120,151,906	120,187,348	1p12	1p12
LU8_L	4	1	1	120,187,348	120,151,906	1p12	1p12
LU18_AD	4	5	15	120,373,080	23,000,240	5q23.1	15q11.2
LU18_L	3	5	15	120,373,304	22,999,904	5q23.1	15q11.2
LU18_L	6	9	9	120,454,190	122,115,443	9q33.1	9q33.1
LU5_L	3	1	1	120,532,906	21,792,590	1p12	1p36.12
LU4_L	3	1	1	120,533,045	21,793,287	1p12	1p36.12
LU16_AD	5	2	2	120,548,154	120,578,101	2q14.2	2q14.2

LU3_L	3	11	11	120,560,699	120,591,224	11q23.3	11q23.3
LU16_AD	5	2	2	120,578,101	120,548,154	2q14.2	2q14.2
LU3_L	3	23	2	120,587,973	169,114,096	Xq24	2q24.3
LU3_L	3	11	11	120,591,224	120,560,699	11q23.3	11q23.3
LU3_L	4	3	3	120,641,570	120,683,447	3q13.33	3q13.33
LU14_L	13	1	5	120,672,931	5,173,032	1p11.2	5p15.32
LU14_AD	20	1	5	120,673,427	5,171,495	1p11.2	5p15.32
LU3_L	4	3	3	120,683,447	120,641,570	3q13.33	3q13.33
LU18_L	3	5	5	120,777,592	120,813,963	5q23.1	5q23.1
LU18_L	3	5	5	120,813,963	120,777,592	5q23.1	5q23.1
LU3_AD	3	4	4	120,822,571	120,854,643	4q27	4q27
LU4_AD	4	2	2	120,837,098	120,866,904	2q14.2	2q14.2
LU3_AD	3	4	4	120,854,643	120,822,571	4q27	4q27
LU4_AD	4	2	2	120,866,904	120,837,098	2q14.2	2q14.2
LU14_L	5	1	5	120,892,978	9,321,852	1p11.2	5p15.31
LU14_AD	14	1	5	120,893,079	9,320,976	1p11.2	5p15.31
LU21_AD	5	4	4	121,044,292	73,038,589	4q27	4q13.3
LU12_L	10	8	8	121,067,030	133,280,200	8q24.12	8q24.22
LU4_L	3	3	2	121,070,104	226,972,848	3q13.33	2q36.3
LU12_L	12	8	8	121,070,333	119,626,357	8q24.12	8q24.12
LU4_L	4	3	3	121,084,948	121,114,484	3q13.33	3q13.33
LU18_AD	3	3	9	121,113,082	134,560,030	3q13.33	9q34.13
LU4_L	4	3	3	121,114,484	121,084,948	3q13.33	3q13.33
LU11_AD	3	4	4	121,156,058	121,187,069	4q27	4q27
LU12_L	5	8	8	121,185,493	121,232,299	8q24.12	8q24.12
LU11_AD	3	4	4	121,187,069	121,156,058	4q27	4q27
LU15_L	6	5	12	121,192,414	94,750,216	5q23.1	12q22
LU12_L	5	8	8	121,232,299	121,185,493	8q24.12	8q24.12
LU3_L	3	4	10	121,263,909	71,911,758	4q27	10q22.1
LU3_AD	4	9	3	121,395,615	184,823,773	9q33.1	3q27.2
LU4_AD	5	9	3	121,399,349	184,823,994	9q33.1	3q27.2
LU20_AD	4	5	5	121,426,415	134,344,917	5q23.2	5q31.1
LU20_AD	3	11	5	121,510,179	97,420,142	11q24.1	5q15
LU18_L	5	9	17	121,524,729	66,237,491	9q33.1	17q24.2
LU18_AD	3	7	7	121,690,416	121,723,472	7q31.32	7q31.32
LU18_AD	3	7	7	121,723,472	121,690,416	7q31.32	7q31.32
LU3_L	9	9	9	121,952,240	121,984,480	9q33.1	9q33.1
LU3_L	3	5	3	121,954,719	97,911,746	5q23.2	3q11.2
LU3_L	9	9	9	121,984,480	121,952,240	9q33.1	9q33.1
LU4_L	4	3	3	121,985,041	122,020,985	3q21.1	3q21.1
LU4_L	4	3	3	122,020,985	121,985,041	3q21.1	3q21.1
LU18_L	6	9	9	122,115,443	120,454,190	9q33.1	9q33.1
LU18_L	5	9	9	122,141,505	122,925,730	9q33.1	9q33.2
LU21_AD	3	6	6	122,142,175	122,176,869	6q22.31	6q22.31

LU21_AD	3	6	6	122,176,869	122,142,175	6q22.31	6q22.31
LU18_L	6	9	9	122,191,042	130,384,599	9q33.1	9q34.11
LU6_L	3	7	7	122,322,570	122,353,514	7q31.32	7q31.32
LU3_AD	3	4	4	122,332,946	122,405,589	4q27	4q27
LU6_L	3	7	7	122,353,514	122,322,570	7q31.32	7q31.32
LU6_L	39	11	11	122,360,077	66,177,930	11q24.1	11q13.2
LU18_AD	3	9	9	122,365,712	110,494,950	9q33.1	9q31.2
LU18_L	12	9	9	122,365,866	111,658,012	9q33.1	9q31.3
LU18_AD	6	9	9	122,367,382	119,904,908	9q33.1	9q33.1
LU18_L	10	9	9	122,367,794	119,905,281	9q33.1	9q33.1
LU4_AD	4	3	23	122,382,018	110,861,844	3q21.1	Xq23
LU3_AD	3	4	4	122,405,589	122,332,946	4q27	4q27
LU20_L	3	9	9	122,420,362	122,473,305	9q33.1	9q33.1
LU3_L	3	5	5	122,468,455	122,500,376	5q23.2	5q23.2
LU20_L	3	9	9	122,473,305	122,420,362	9q33.1	9q33.1
LU3_L	3	5	5	122,500,376	122,468,455	5q23.2	5q23.2
LU14_L	5	9	9	122,588,751	122,621,021	9q33.2	9q33.2
LU14_L	5	9	9	122,621,021	122,588,751	9q33.2	9q33.2
LU18_AD	5	9	9	122,876,731	110,496,624	9q33.2	9q31.2
LU4_AD	3	10	10	122,879,619	122,911,308	10q26.12	10q26.12
LU14_L	3	4	4	122,906,536	163,980,778	4q27	4q32.2
LU4_AD	3	10	10	122,911,308	122,879,619	10q26.12	10q26.12
LU5_L	4	6	6	122,917,133	145,889,956	6q22.31	6q24.3
LU18_L	5	9	9	122,925,730	122,141,505	9q33.2	9q33.1
LU5_L	3	10	10	123,036,113	123,069,330	10q26.12	10q26.12
LU6_L	8	11	11	123,041,097	125,324,756	11q24.1	11q24.2
LU18_AD	4	6	12	123,065,820	74,663,418	6q22.31	12q21.1
LU14_AD	4	6	4	123,068,354	138,402,200	6q22.31	4q28.3
LU15_AD	3	6	12	123,069,148	74,661,691	6q22.31	12q21.1
LU5_L	3	10	10	123,069,330	123,036,113	10q26.12	10q26.12
LU3_L	3	5	5	123,367,512	123,415,905	5q23.2	5q23.2
LU3_L	3	5	5	123,415,905	123,367,512	5q23.2	5q23.2
LU4_AD	3	2	2	123,667,891	123,705,600	2q14.3	2q14.3
LU4_AD	3	2	2	123,705,600	123,667,891	2q14.3	2q14.3
LU3_L	4	4	4	123,886,151	123,916,744	4q28.1	4q28.1
LU3_L	4	4	4	123,916,744	123,886,151	4q28.1	4q28.1
LU4_AD	4	8	8	123,928,606	123,976,375	8q24.13	8q24.13
LU4_AD	4	8	8	123,976,375	123,928,606	8q24.13	8q24.13
LU3_L	3	12	3	124,035,534	38,339,517	12q24.31	3p22.2
LU5_L	3	12	12	124,526,627	124,718,914	12q24.31	12q24.31
LU4_L	4	10	10	124,532,422	124,573,096	10q26.13	10q26.13
LU4_L	4	10	10	124,573,096	124,532,422	10q26.13	10q26.13
LU3_L	3	23	20	124,700,471	13,932,591	Xq25	20p12.1
LU5_L	3	12	12	124,718,914	124,526,627	12q24.31	12q24.31

LU18_AD	4	9	9	124,782,307	124,840,428	9q33.2	9q33.2
LU3_AD	3	9	9	124,803,035	124,832,554	9q33.2	9q33.2
LU3_AD	3	9	9	124,832,554	124,803,035	9q33.2	9q33.2
LU18_AD	4	9	9	124,840,428	124,782,307	9q33.2	9q33.2
LU4_AD	3	4	4	124,935,452	124,983,660	4q28.1	4q28.1
LU11_AD	17	2	2	124,951,130	60,432,276	2q14.3	2p16.1
LU11_AD	3	2	2	124,954,660	61,116,819	2q14.3	2p16.1
LU11_AD	3	2	2	124,957,141	61,163,918	2q14.3	2p16.1
LU4_AD	3	4	4	124,983,660	124,935,452	4q28.1	4q28.1
LU4_L	3	23	23	124,986,262	125,020,704	Xq25	Xq25
LU4_L	3	23	23	125,020,704	124,986,262	Xq25	Xq25
LU4_AD	5	6	6	125,072,400	125,106,059	6q22.31	6q22.31
LU18_L	4	7	12	125,097,073	69,378,422	7q31.33	12q15
LU4_AD	5	6	6	125,106,059	125,072,400	6q22.31	6q22.31
LU8_L	3	7	7	125,222,198	125,255,822	7q31.33	7q31.33
LU3_L	5	5	5	125,231,382	125,265,901	5q23.2	5q23.2
LU8_L	3	7	7	125,255,822	125,222,198	7q31.33	7q31.33
LU3_L	5	5	5	125,265,901	125,231,382	5q23.2	5q23.2
LU12_L	3	9	9	125,299,079	80,795,932	9q33.2	9q21.2
LU6_L	8	11	11	125,324,756	123,041,097	11q24.2	11q24.1
LU21_L	3	9	9	125,358,068	125,388,073	9q33.2	9q33.2
LU21_L	3	9	9	125,388,073	125,358,068	9q33.2	9q33.2
LU7_AD	4	3	2	125,413,697	159,738,817	3q21.2	2q24.1
LU4_L	3	9	4	125,426,208	131,399,921	9q33.2	4q28.3
LU18_L	3	3	13	125,428,159	68,479,596	3q21.2	13q21.32
LU4_AD	3	9	2	125,449,309	171,906,735	9q33.2	2q31.1
LU8_AD	3	5	5	125,508,610	125,539,925	5q23.2	5q23.2
LU8_AD	3	5	5	125,539,925	125,508,610	5q23.2	5q23.2
LU18_AD	17	5	14	125,548,314	55,115,379	5q23.2	14q22.2
LU18_L	8	5	14	125,550,076	55,115,736	5q23.2	14q22.2
LU11_AD	4	5	7	125,557,443	82,274,949	5q23.2	7q21.11
LU14_AD	4	10	1	125,557,657	207,194,662	10q26.13	1q32.1
LU12_L	3	3	8	125,585,319	10,430,650	3q21.2	8p23.1
LU18_AD	6	5	5	125,625,390	129,721,267	5q23.2	5q23.3
LU3_L	3	9	19	125,664,613	5,829,600	9q33.2	19p13.3
LU18_L	13	5	5	125,677,439	130,962,080	5q23.2	5q31.1
LU18_AD	4	5	5	125,678,232	130,961,887	5q23.2	5q31.1
LU20_AD	4	9	17	125,720,358	46,138,314	9q33.2	17q21.32
LU3_AD	3	3	3	125,728,803	125,762,359	3q21.2	3q21.2
LU3_AD	3	3	3	125,762,359	125,728,803	3q21.2	3q21.2
LU18_L	7	7	7	125,862,679	81,874,811	7q31.33	7q21.11
LU18_AD	6	7	7	125,863,978	81,874,422	7q31.33	7q21.11
LU6_L	11	11	11	125,884,738	129,522,107	11q24.2	11q24.3
LU6_L	68	11	11	125,969,979	68,318,699	11q24.2	11q13.2

LU7_AD	5	12	10	126,352,808	50,894,087	12q24.32	10q11.23
LU20_AD	4	5	5	126,378,962	126,414,186	5q23.2	5q23.2
LU20_AD	4	5	5	126,414,186	126,378,962	5q23.2	5q23.2
LU3_L	5	8	22	126,533,223	29,065,460	8q24.13	22q12.1
LU3_AD	16	8	22	126,533,705	29,065,206	8q24.13	22q12.1
LU18_AD	4	3	3	126,640,000	126,669,822	3q21.3	3q21.3
LU20_L	4	11	11	126,648,381	126,684,264	11q24.2	11q24.2
LU18_AD	4	3	3	126,669,822	126,640,000	3q21.3	3q21.3
LU20_L	4	11	11	126,684,264	126,648,381	11q24.2	11q24.2
LU4_AD	3	8	8	126,743,590	126,775,122	8q24.13	8q24.13
LU4_AD	3	8	8	126,775,122	126,743,590	8q24.13	8q24.13
LU21_AD	4	3	20	126,880,110	59,793,396	3q21.3	20q13.33
LU6_L	3	5	16	126,928,044	57,877,261	5q23.2	16q21
LU12_L	3	5	6	127,010,127	84,069,994	5q23.2	6q14.2
LU21_AD	3	4	7	127,055,515	94,351,791	4q28.1	7q21.3
LU18_L	14	4	5	127,055,732	1,579,402	4q28.1	5p15.33
LU12_AD	3	4	6	127,070,237	131,658,543	4q28.1	6q23.2
LU12_L	27	8	8	127,081,114	129,263,976	8q24.13	8q24.21
LU12_L	19	8	8	127,083,056	135,761,750	8q24.13	8q24.22
LU6_L	6	5	16	127,123,161	75,495,173	5q23.2	16q23.1
LU16_AD	3	12	12	127,149,743	127,182,568	12q24.32	12q24.32
LU16_AD	3	12	12	127,182,568	127,149,743	12q24.32	12q24.32
LU14_L	3	2	2	127,255,110	127,291,070	2q14.3	2q14.3
LU14_L	3	2	2	127,291,070	127,255,110	2q14.3	2q14.3
LU4_L	3	23	23	127,346,645	127,380,314	Xq25	Xq25
LU4_L	3	23	23	127,380,314	127,346,645	Xq25	Xq25
LU3_L	5	5	5	127,543,346	127,583,680	5q23.3	5q23.3
LU12_L	3	5	11	127,559,207	19,003,185	5q23.3	11p15.1
LU3_L	5	5	5	127,583,680	127,543,346	5q23.3	5q23.3
LU18_AD	3	5	5	127,843,681	127,882,615	5q23.3	5q23.3
LU18_AD	3	5	5	127,882,615	127,843,681	5q23.3	5q23.3
LU16_L	4	7	3	127,901,325	9,534,211	7q32.1	3p25.3
LU18_AD	3	6	6	128,005,720	128,042,126	6q22.33	6q22.33
LU8_AD	14	23	23	128,019,615	128,052,745	Xq25	Xq25
LU18_AD	3	6	6	128,042,126	128,005,720	6q22.33	6q22.33
LU8_AD	14	23	23	128,052,745	128,019,615	Xq25	Xq25
LU8_L	3	23	23	128,137,793	128,176,818	Xq25	Xq25
LU8_L	3	23	23	128,176,818	128,137,793	Xq25	Xq25
LU12_L	17	8	8	128,242,877	135,760,690	8q24.21	8q24.22
LU18_L	4	8	1	128,426,699	155,404,106	8q24.21	1q22
LU6_L	4	8	8	128,436,711	128,469,366	8q24.21	8q24.21
LU7_L	3	8	8	128,440,461	7,265,261	8q24.21	8p23.1
LU12_L	9	8	8	128,452,258	110,927,832	8q24.21	8q23.2
LU12_L	15	8	8	128,456,563	1,426,628	8q24.21	8p23.3

LU6_L	4	8	8	128,469,366	128,436,711	8q24.21	8q24.21
LU18_L	3	23	23	128,477,657	128,516,999	Xq25	Xq25
LU4_AD	3	10	10	128,480,891	128,517,933	10q26.2	10q26.2
LU18_L	3	23	23	128,516,999	128,477,657	Xq25	Xq25
LU4_AD	3	10	10	128,517,933	128,480,891	10q26.2	10q26.2
LU12_L	26	8	8	128,614,772	5,205,741	8q24.21	8p23.2
LU12_L	14	8	8	128,618,949	46,977,931	8q24.21	8q11.1
LU20_AD	6	2	6	128,795,121	4,384,733	2q14.3	6p25.1
LU7_L	5	7	7	129,040,965	79,256,868	7q32.1	7q21.11
LU12_L	27	8	8	129,263,976	127,081,114	8q24.21	8q24.13
LU15_AD	8	8	8	129,450,101	129,621,360	8q24.21	8q24.21
LU6_L	11	11	11	129,522,107	125,884,738	11q24.3	11q24.2
LU18_AD	3	8	8	129,560,066	129,590,978	8q24.21	8q24.21
LU18_AD	3	8	8	129,590,978	129,560,066	8q24.21	8q24.21
LU4_AD	4	2	4	129,611,917	150,013,563	2q14.3	4q31.23
LU15_AD	8	8	8	129,621,360	129,450,101	8q24.21	8q24.21
LU20_AD	3	8	11	129,628,942	42,144,779	8q24.21	11p12
LU18_AD	6	5	5	129,721,267	125,625,390	5q23.3	5q23.2
LU18_AD	4	3	2	129,743,757	159,731,731	3q22.1	2q24.1
LU16_AD	3	3	8	129,829,343	11,990,438	3q22.1	8p23.1
LU14_L	3	5	23	129,878,635	99,823,799	5q23.3	Xq22.1
LU18_AD	3	7	1	129,956,778	9,151,422	7q32.2	1p36.23
LU3_L	4	5	1	129,970,721	188,231,192	5q23.3	1q31.1
LU3_L	3	4	21	130,055,821	9,864,184	4q28.2	21p11.2
LU12_L	5	23	23	130,291,821	130,325,445	Xq26.1	Xq26.1
LU12_L	5	23	23	130,325,445	130,291,821	Xq26.1	Xq26.1
LU18_L	6	9	9	130,384,599	122,191,042	9q34.11	9q33.1
LU12_AD	4	2	2	130,501,971	182,444,746	2q21.1	2q31.3
LU7_L	4	2	12	130,721,489	55,728,400	2q21.1	12q13.2
LU15_L	5	10	2	130,722,642	917,156	10q26.3	2p25.3
LU18_L	3	23	1	130,780,420	156,713,139	Xq26.2	1q23.1
LU4_AD	5	6	6	130,821,501	130,861,039	6q23.1	6q23.1
LU4_AD	5	6	6	130,861,039	130,821,501	6q23.1	6q23.1
LU3_L	3	6	6	130,886,000	130,923,593	6q23.1	6q23.1
LU3_L	3	6	6	130,923,593	130,886,000	6q23.1	6q23.1
LU18_AD	4	5	5	130,961,887	125,678,232	5q31.1	5q23.2
LU18_L	13	5	5	130,962,080	125,677,439	5q31.1	5q23.2
LU18_L	4	9	15	131,013,132	76,030,292	9q34.11	15q24.2
LU4_AD	5	9	15	131,013,375	76,030,078	9q34.11	15q24.2
LU3_L	3	12	12	131,152,820	131,189,409	12q24.33	12q24.33
LU3_L	3	12	12	131,189,409	131,152,820	12q24.33	12q24.33
LU6_AD	4	8	8	131,298,745	131,335,481	8q24.21	8q24.21
LU6_AD	4	8	8	131,335,481	131,298,745	8q24.21	8q24.21
LU18_L	3	2	7	131,392,269	39,876,623	2q21.1	7p14.1

LU4_L	3	4	9	131,399,921	125,426,208	4q28.3	9q33.2
LU21_AD	3	10	10	131,469,065	131,504,822	10q26.3	10q26.3
LU21_AD	3	10	10	131,504,822	131,469,065	10q26.3	10q26.3
LU5_L	3	3	3	131,557,058	131,586,735	3q22.1	3q22.1
LU12_L	16	8	8	131,561,282	34,463,372	8q24.22	8p12
LU5_L	3	3	3	131,586,735	131,557,058	3q22.1	3q22.1
LU4_AD	3	9	14	131,613,748	24,444,717	9q34.11	14q11.2
LU16_L	3	6	10	131,617,404	92,565,791	6q23.2	10q23.31
LU12_AD	3	6	4	131,658,543	127,070,237	6q23.2	4q28.1
LU4_L	5	11	11	131,674,270	131,709,743	11q25	11q25
LU4_L	5	11	11	131,709,743	131,674,270	11q25	11q25
LU21_AD	3	8	8	131,808,248	131,850,725	8q24.22	8q24.22
LU21_AD	3	8	8	131,850,725	131,808,248	8q24.22	8q24.22
LU5_AD	3	11	11	131,998,035	132,034,263	11q25	11q25
LU12_L	3	3	1	132,014,992	227,873,610	3q22.1	1q42.13
LU8_L	4	3	1	132,015,159	227,869,968	3q22.1	1q42.13
LU20_L	3	6	7	132,030,860	143,476,484	6q23.2	7q35
LU5_AD	3	11	11	132,034,263	131,998,035	11q25	11q25
LU20_AD	3	7	7	132,083,758	132,133,732	7q32.3	7q32.3
LU18_L	5	10	5	132,089,348	1,580,032	10q26.3	5p15.33
LU12_AD	3	10	1	132,091,204	16,432,667	10q26.3	1p36.13
LU4_AD	3	10	1	132,094,133	178,524,626	10q26.3	1q25.2
LU5_L	4	7	7	132,096,121	132,147,835	7q32.3	7q32.3
LU20_AD	3	7	7	132,133,732	132,083,758	7q32.3	7q32.3
LU5_L	4	7	7	132,147,835	132,096,121	7q32.3	7q32.3
LU3_L	3	10	10	132,339,499	132,378,303	10q26.3	10q26.3
LU3_L	3	10	10	132,378,303	132,339,499	10q26.3	10q26.3
LU12_AD	4	11	6	132,528,893	64,855,939	11q25	6q12
LU4_L	3	3	5	132,544,990	76,885,095	3q22.1	5q13.3
LU15_L	3	2	9	132,556,893	70,659,746	2q21.2	9q21.11
LU4_L	3	2	22	132,566,667	16,876,725	2q21.2	22q11.1
LU8_L	6	2	20	132,594,074	26,073,031	2q21.2	20p11.1
LU4_L	3	4	9	132,635,182	41,951,596	4q28.3	9p12
LU14_AD	6	10	1	132,662,151	154,081,525	10q26.3	1q21.3
LU21_L	3	6	6	132,803,094	132,842,694	6q23.2	6q23.2
LU3_L	3	2	24	132,833,612	13,340,635	2q21.2	Yq11.1
LU21_L	3	6	6	132,842,694	132,803,094	6q23.2	6q23.2
LU18_AD	3	7	11	132,853,315	94,647,693	7q33	11q21
LU21_AD	3	7	5	132,855,259	82,264,659	7q33	5q14.2
LU18_L	5	5	4	133,013,631	92,906,210	5q31.1	4q22.1
LU18_AD	7	2	5	133,040,160	2,641,089	2q21.2	5p15.33
LU18_L	8	2	5	133,040,171	2,640,074	2q21.2	5p15.33
LU3_AD	4	10	10	133,100,903	133,132,742	10q26.3	10q26.3
LU8_L	5	2	2	133,109,614	91,850,861	2q21.2	2p11.1

LU3_AD	4	10	10	133,132,742	133,100,903	10q26.3	10q26.3
LU4_L	3	2	2	133,179,517	133,241,418	2q21.2	2q21.2
LU8_L	3	2	2	133,216,269	133,248,346	2q21.2	2q21.2
LU4_L	3	2	2	133,241,418	133,179,517	2q21.2	2q21.2
LU8_L	3	2	2	133,248,346	133,216,269	2q21.2	2q21.2
LU12_L	19	8	8	133,274,777	96,702,977	8q24.22	8q22.1
LU12_L	10	8	8	133,280,200	121,067,030	8q24.22	8q24.12
LU18_AD	3	4	1	133,734,068	32,905,767	4q28.3	1p35.1
LU18_AD	5	4	21	133,805,598	20,127,946	4q28.3	21q21.1
LU20_L	3	8	8	133,870,465	133,905,864	8q24.22	8q24.22
LU20_L	3	8	8	133,905,864	133,870,465	8q24.22	8q24.22
LU4_AD	3	6	6	134,096,225	134,136,043	6q23.2	6q23.2
LU4_AD	3	6	6	134,136,043	134,096,225	6q23.2	6q23.2
LU6_L	5	11	11	134,143,519	102,382,500	11q25	11q22.2
LU6_AD	7	11	11	134,144,109	102,382,351	11q25	11q22.2
LU20_AD	4	5	5	134,344,917	121,426,415	5q31.1	5q23.2
LU21_AD	3	2	2	134,458,548	134,495,090	2q21.2	2q21.2
LU21_AD	3	2	2	134,495,090	134,458,548	2q21.2	2q21.2
LU18_L	3	5	5	134,512,218	134,562,844	5q31.1	5q31.1
LU18_AD	3	9	3	134,560,030	121,113,082	9q34.13	3q13.33
LU18_L	3	5	5	134,562,844	134,512,218	5q31.1	5q31.1
LU21_AD	3	4	4	134,613,566	134,643,217	4q28.3	4q28.3
LU21_AD	3	4	4	134,643,217	134,613,566	4q28.3	4q28.3
LU5_L	3	9	9	134,753,279	134,784,676	9q34.13	9q34.13
LU5_L	3	9	9	134,784,676	134,753,279	9q34.13	9q34.13
LU12_L	12	8	8	134,958,983	2,974,570	8q24.22	8p23.2
LU12_L	26	8	8	134,969,144	96,697,200	8q24.22	8q22.1
LU8_L	3	5	1	135,073,802	225,074,609	5q31.1	1q42.12
LU20_AD	4	5	12	135,107,757	45,548,544	5q31.1	12q12
LU20_AD	3	5	9	135,110,612	69,188,715	5q31.1	9q21.11
LU3_L	3	5	19	135,136,036	41,967,992	5q31.1	19q13.2
LU20_AD	3	5	16	135,140,174	18,577,690	5q31.1	16p12.3
LU6_L	5	8	8	135,324,041	135,359,182	8q24.22	8q24.22
LU6_L	5	8	8	135,359,182	135,324,041	8q24.22	8q24.22
LU21_AD	3	4	4	135,422,143	135,456,620	4q28.3	4q28.3
LU21_AD	3	4	4	135,456,620	135,422,143	4q28.3	4q28.3
LU3_AD	4	7	7	135,483,001	135,518,020	7q33	7q33
LU7_L	3	10	1	135,506,367	802,915	10q26.3	1p36.33
LU3_AD	4	7	7	135,518,020	135,483,001	7q33	7q33
LU14_AD	4	2	11	135,564,007	93,855,994	2q21.3	11q21
LU4_AD	3	3	3	135,660,202	135,693,795	3q22.2	3q22.2
LU4_AD	3	3	3	135,693,795	135,660,202	3q22.2	3q22.2
LU14_L	3	2	7	135,724,096	97,571,023	2q21.3	7q21.3
LU12_L	17	8	8	135,760,690	128,242,877	8q24.22	8q24.21

LU12_L	19	8	8	135,761,750	127,083,056	8q24.22	8q24.13
LU3_AD	3	5	5	135,890,755	135,924,080	5q31.1	5q31.1
LU3_AD	3	5	5	135,924,080	135,890,755	5q31.1	5q31.1
LU20_AD	3	7	7	135,948,312	30,576,786	7q33	7p14.3
LU4_AD	5	23	3	136,297,640	9,370,196	Xq26.3	3p25.3
LU7_AD	3	9	9	136,429,867	136,461,391	9q34.2	9q34.2
LU7_AD	3	9	9	136,461,391	136,429,867	9q34.2	9q34.2
LU3_AD	3	5	5	136,539,310	136,570,662	5q31.2	5q31.2
LU3_AD	3	5	5	136,570,662	136,539,310	5q31.2	5q31.2
LU5_AD	3	7	7	136,598,538	136,633,280	7q33	7q33
LU5_AD	3	7	7	136,633,280	136,598,538	7q33	7q33
LU12_L	4	7	7	136,781,413	136,817,090	7q33	7q33
LU12_L	4	7	7	136,817,090	136,781,413	7q33	7q33
LU7_AD	3	7	1	136,950,790	227,869,205	7q33	1q42.13
LU4_AD	3	4	4	137,071,345	137,103,950	4q28.3	4q28.3
LU4_AD	3	4	4	137,103,950	137,071,345	4q28.3	4q28.3
LU8_L	4	4	13	137,276,507	19,255,364	4q28.3	13q11
LU12_L	14	8	8	137,331,701	71,074,354	8q24.23	8q13.3
LU6_AD	14	8	20	137,373,527	9,511,629	8q24.23	20p12.2
LU6_L	12	8	20	137,374,676	9,513,117	8q24.23	20p12.2
LU11_AD	3	4	19	137,533,940	9,750,067	4q28.3	19p13.2
LU21_AD	3	3	3	137,753,470	137,787,159	3q22.3	3q22.3
LU11_L	4	8	8	137,784,461	140,297,072	8q24.23	8q24.3
LU21_AD	3	3	3	137,787,159	137,753,470	3q22.3	3q22.3
LU18_L	6	5	10	137,842,275	58,482,123	5q31.2	10q21.1
LU3_AD	3	2	2	138,373,219	138,405,889	2q22.1	2q22.1
LU14_AD	4	4	6	138,402,200	123,068,354	4q28.3	6q22.31
LU3_AD	3	2	2	138,405,889	138,373,219	2q22.1	2q22.1
LU12_L	3	8	11	138,423,848	94,085,245	8q24.23	11q21
LU14_L	4	4	4	138,524,731	163,954,618	4q28.3	4q32.2
LU4_AD	3	23	23	138,659,639	138,702,124	Xq27.1	Xq27.1
LU4_AD	3	23	23	138,702,124	138,659,639	Xq27.1	Xq27.1
LU16_AD	4	8	8	138,736,755	138,771,674	8q24.23	8q24.23
LU16_AD	4	8	8	138,771,674	138,736,755	8q24.23	8q24.23
LU4_AD	4	23	23	139,445,878	139,478,795	Xq27.1	Xq27.1
LU4_AD	4	23	23	139,478,795	139,445,878	Xq27.1	Xq27.1
LU5_L	3	4	6	139,544,514	106,681,866	4q31.1	6q21
LU12_L	27	8	8	139,577,833	73,854,020	8q24.23	8q13.3
LU14_L	6	5	5	139,661,692	113,776,564	5q31.3	5q22.3
LU14_AD	3	5	5	139,663,074	113,780,255	5q31.3	5q22.3
LU4_L	3	4	4	139,738,045	139,767,950	4q31.1	4q31.1
LU4_L	3	4	4	139,767,950	139,738,045	4q31.1	4q31.1
LU11_L	7	8	1	139,867,133	158,763,345	8q24.23	1q23.1
LU18_L	4	4	9	139,979,643	90,429,012	4q31.1	9q22.1

LU7_L	4	7	7	139,988,552	19,177,972	7q34	7p21.1
LU12_L	4	3	3	140,059,698	140,094,159	3q23	3q23
LU12_L	4	3	3	140,094,159	140,059,698	3q23	3q23
LU11_L	7	8	8	140,117,413	58,956,326	8q24.3	8q12.1
LU3_L	3	6	6	140,133,610	140,182,128	6q24.1	6q24.1
LU3_L	3	6	6	140,182,128	140,133,610	6q24.1	6q24.1
LU11_L	4	8	8	140,297,072	137,784,461	8q24.3	8q24.23
LU4_AD	6	9	10	140,399,599	38,220,139	9q34.3	10p11.1
LU11_L	4	8	8	140,480,647	18,986,672	8q24.3	8p22
LU18_AD	3	4	1	140,559,968	181,218,768	4q31.1	1q25.3
LU4_AD	3	9	9	140,753,412	140,787,685	9q34.3	9q34.3
LU4_AD	3	9	9	140,787,685	140,753,412	9q34.3	9q34.3
LU3_AD	4	6	6	140,834,573	140,866,381	6q24.1	6q24.1
LU3_AD	4	6	6	140,866,381	140,834,573	6q24.1	6q24.1
LU15_L	3	9	9	140,924,804	140,974,717	9q34.3	9q34.3
LU15_L	3	9	9	140,974,717	140,924,804	9q34.3	9q34.3
LU21_AD	3	6	17	141,013,022	34,545,738	6q24.1	17q12
LU8_L	3	8	8	141,049,448	141,079,637	8q24.3	8q24.3
LU20_AD	3	9	24	141,077,124	19,623,054	9q34.3	Yq11.221
LU8_L	3	8	8	141,079,637	141,049,448	8q24.3	8q24.3
LU18_L	4	2	5	141,182,353	160,669,014	2q22.1	5q34
LU18_L	3	7	11	141,450,767	101,569,208	7q34	11q22.1
LU3_L	3	7	7	141,670,575	141,709,052	7q34	7q34
LU3_L	3	7	7	141,709,052	141,670,575	7q34	7q34
LU16_L	3	8	8	141,751,699	141,956,599	8q24.3	8q24.3
LU5_AD	3	4	4	141,760,365	141,798,312	4q31.21	4q31.21
LU3_AD	3	8	8	141,768,040	141,817,586	8q24.3	8q24.3
LU5_AD	3	4	4	141,798,312	141,760,365	4q31.21	4q31.21
LU3_AD	3	8	8	141,817,586	141,768,040	8q24.3	8q24.3
LU4_L	3	2	2	141,872,289	141,936,924	2q22.1	2q22.1
LU3_L	3	2	2	141,908,032	141,940,234	2q22.1	2q22.1
LU4_L	3	2	2	141,936,924	141,872,289	2q22.1	2q22.1
LU3_L	3	2	2	141,940,234	141,908,032	2q22.1	2q22.1
LU16_L	3	8	8	141,956,599	141,751,699	8q24.3	8q24.3
LU7_AD	3	8	8	142,009,457	142,042,608	8q24.3	8q24.3
LU7_AD	3	8	8	142,042,608	142,009,457	8q24.3	8q24.3
LU4_AD	3	3	3	142,079,725	142,110,627	3q23	3q23
LU4_AD	3	3	3	142,110,627	142,079,725	3q23	3q23
LU8_AD	3	23	23	142,116,472	142,800,686	Xq27.3	Xq27.3
LU8_L	3	7	7	142,175,284	142,274,061	7q34	7q34
LU4_AD	3	5	5	142,228,807	142,262,009	5q31.3	5q31.3
LU4_AD	3	5	5	142,262,009	142,228,807	5q31.3	5q31.3
LU8_L	3	7	7	142,274,061	142,175,284	7q34	7q34
LU12_L	3	23	23	142,326,533	142,356,363	Xq27.3	Xq27.3

LU12_L	3	23	23	142,356,363	142,326,533	Xq27.3	Xq27.3
LU3_L	3	6	6	142,420,379	142,466,932	6q24.1	6q24.1
LU8_L	4	23	23	142,463,436	142,501,919	Xq27.3	Xq27.3
LU3_L	3	6	6	142,466,932	142,420,379	6q24.1	6q24.1
LU8_L	4	23	23	142,501,919	142,463,436	Xq27.3	Xq27.3
LU18_L	8	8	4	142,548,699	38,245,177	8q24.3	4p14
LU12_L	5	1	16	142,550,227	47,917,269	1q12	16q12.1
LU15_L	5	1	14	142,594,981	103,701,174	1q12	14q32.32
LU12_L	3	1	12	142,597,059	50,889,449	1q12	12q13.12
LU16_AD	9	1	5	142,667,341	1,753,356	1q21.1	5p15.33
LU8_AD	3	1	1	142,699,221	143,230,681	1q21.1	1q21.1
LU18_L	5	1	5	142,701,075	1,206,339	1q21.1	5p15.33
LU8_AD	3	23	23	142,800,686	142,116,472	Xq27.3	Xq27.3
LU4_L	21	7	7	142,821,017	142,893,979	7q34	7q34
LU4_AD	26	7	7	142,821,221	142,894,503	7q34	7q34
LU18_L	15	1	5	142,837,623	1,206,607	1q21.1	5p15.33
LU18_AD	20	1	5	142,838,166	1,206,232	1q21.1	5p15.33
LU18_L	78	1	5	142,838,272	4,898,055	1q21.1	5p15.32
LU18_AD	67	1	5	142,839,597	4,896,130	1q21.1	5p15.32
LU4_L	21	7	7	142,893,979	142,821,017	7q34	7q34
LU4_AD	26	7	7	142,894,503	142,821,221	7q34	7q34
LU12_L	35	8	8	142,930,740	107,502,778	8q24.3	8q23.1
LU14_AD	7	1	10	143,161,423	42,378,813	1q21.1	10q11.21
LU14_L	5	1	10	143,162,686	42,369,435	1q21.1	10q11.21
LU5_L	3	1	9	143,223,284	67,288,985	1q21.1	9q13
LU8_AD	3	1	1	143,230,681	142,699,221	1q21.1	1q21.1
LU18_L	3	1	12	143,279,005	68,862,921	1q21.1	12q15
LU18_AD	22	1	5	143,283,169	2,640,272	1q21.1	5p15.33
LU18_L	17	1	5	143,283,183	2,640,302	1q21.1	5p15.33
LU18_AD	12	1	5	143,389,562	1,206,184	1q21.1	5p15.33
LU18_L	9	1	5	143,389,674	1,206,187	1q21.1	5p15.33
LU18_L	9	1	5	143,390,092	4,899,368	1q21.1	5p15.32
LU18_AD	7	1	5	143,390,096	4,896,700	1q21.1	5p15.32
LU20_L	3	7	7	143,443,455	143,548,366	7q35	7q35
LU3_L	3	5	5	143,462,353	143,492,277	5q31.3	5q31.3
LU20_L	3	7	6	143,476,484	132,030,860	7q35	6q23.2
LU21_L	3	1	12	143,489,883	47,840,051	1q21.1	12q13.11
LU3_L	3	5	5	143,492,277	143,462,353	5q31.3	5q31.3
LU20_L	3	7	7	143,548,366	143,443,455	7q35	7q35
LU12_L	3	1	1	143,717,107	17,063,582	1q21.1	1p36.13
LU14_AD	6	1	10	143,737,381	42,358,772	1q21.1	10q11.21
LU4_AD	3	1	1	143,752,905	148,623,862	1q21.1	1q21.2
LU18_AD	3	1	1	143,756,329	148,614,867	1q21.1	1q21.2
LU3_L	3	1	1	143,762,767	149,008,098	1q21.1	1q21.2

LU4_L	4	7	1	144,117,779	169,635,010	7q35	1q24.2
LU7_L	3	7	11	144,119,856	67,384,857	7q35	11q13.2
LU3_AD	3	1	1	144,146,499	151,990,977	1q21.1	1q21.3
LU18_AD	3	1	1	144,182,345	146,038,815	1q21.1	1q21.1
LU4_L	3	23	23	144,202,429	144,233,092	Xq27.3	Xq27.3
LU7_AD	4	7	7	144,209,843	40,160,397	7q35	7p14.1
LU4_L	3	23	23	144,233,092	144,202,429	Xq27.3	Xq27.3
LU3_AD	4	3	3	144,302,879	144,341,264	3q24	3q24
LU12_L	3	1	1	144,324,911	147,916,358	1q21.1	1q21.2
LU3_AD	4	3	3	144,341,264	144,302,879	3q24	3q24
LU20_AD	3	8	14	144,342,705	39,305,578	8q24.3	14q21.1
LU14_L	4	1	13	144,378,539	20,629,539	1q21.1	13q12.11
LU15_L	3	8	9	144,398,966	91,868,684	8q24.3	9q22.2
LU21_L	4	6	2	144,439,461	17,525,019	6q24.2	2p24.2
LU14_AD	12	1	1	144,578,651	153,229,909	1q21.1	1q21.3
LU14_L	4	1	1	144,583,341	153,229,847	1q21.1	1q21.3
LU12_L	4	1	1	144,592,228	145,974,727	1q21.1	1q21.1
LU12_L	4	1	1	144,617,852	148,024,821	1q21.1	1q21.2
LU14_AD	43	1	5	144,689,265	4,522,098	1q21.1	5p15.32
LU14_L	31	1	5	144,689,520	4,523,015	1q21.1	5p15.32
LU14_AD	51	1	1	144,689,928	145,269,450	1q21.1	1q21.1
LU14_L	26	1	1	144,690,091	145,269,418	1q21.1	1q21.1
LU14_AD	3	1	25	144,691,160	2,494,649	1q21.1	25
LU20_L	5	4	4	144,807,608	145,089,983	4q31.21	4q31.21
LU20_L	4	4	4	144,807,712	145,088,314	4q31.21	4q31.21
LU20_AD	6	4	4	144,812,029	145,082,302	4q31.21	4q31.21
LU14_AD	7	1	5	144,825,492	4,537,275	1q21.1	5p15.32
LU5_L	3	3	3	144,881,739	144,921,884	3q24	3q24
LU14_AD	3	1	25	144,920,685	1,900,119	1q21.1	25
LU14_L	26	1	1	144,921,859	155,064,580	1q21.1	1q22
LU5_L	3	3	3	144,921,884	144,881,739	3q24	3q24
LU14_AD	48	1	1	144,923,413	155,061,700	1q21.1	1q22
LU20_L	3	4	4	144,925,734	145,089,699	4q31.21	4q31.21
LU14_L	7	1	1	144,964,908	145,269,221	1q21.1	1q21.1
LU14_L	11	1	5	144,964,958	4,522,777	1q21.1	5p15.32
LU14_AD	24	1	5	144,965,042	4,521,840	1q21.1	5p15.32
LU14_AD	5	1	18	144,966,629	107,045	1q21.1	18p11.32
LU14_AD	7	1	1	144,966,631	145,269,191	1q21.1	1q21.1
LU3_L	3	1	1	145,015,546	145,046,002	1q21.1	1q21.1
LU15_L	3	6	3	145,015,880	48,252,194	6q24.2	3p21.31
LU3_AD	3	3	3	145,028,186	145,065,135	3q24	3q24
LU3_L	3	1	1	145,046,002	145,015,546	1q21.1	1q21.1
LU14_L	32	1	5	145,062,086	4,532,365	1q21.1	5p15.32
LU14_AD	16	1	5	145,062,116	4,532,761	1q21.1	5p15.32

LU3_AD	3	3	3	145,065,135	145,028,186	3q24	3q24
LU14_AD	24	1	5	145,065,327	4,532,766	1q21.1	5p15.32
LU20_AD	6	4	4	145,082,302	144,812,029	4q31.21	4q31.21
LU14_AD	28	1	5	145,086,879	5,205,543	1q21.1	5p15.32
LU14_L	26	1	5	145,087,089	5,204,523	1q21.1	5p15.32
LU20_L	4	4	4	145,088,314	144,807,712	4q31.21	4q31.21
LU20_L	3	4	4	145,089,699	144,925,734	4q31.21	4q31.21
LU20_L	5	4	4	145,089,983	144,807,608	4q31.21	4q31.21
LU7_L	4	7	7	145,136,762	2,757,643	7q35	7p22.3
LU14_AD	17	1	5	145,143,543	5,171,365	1q21.1	5p15.32
LU14_AD	4	1	1	145,173,600	153,568,227	1q21.1	1q21.3
LU12_AD	3	1	1	145,211,529	145,243,210	1q21.1	1q21.1
LU12_AD	3	1	1	145,243,210	145,211,529	1q21.1	1q21.1
LU14_AD	7	1	1	145,269,191	144,966,631	1q21.1	1q21.1
LU14_L	7	1	1	145,269,221	144,964,908	1q21.1	1q21.1
LU14_L	26	1	1	145,269,418	144,690,091	1q21.1	1q21.1
LU14_AD	51	1	1	145,269,450	144,689,928	1q21.1	1q21.1
LU3_AD	3	4	4	145,516,670	145,552,453	4q31.21	4q31.21
LU3_AD	3	4	4	145,552,453	145,516,670	4q31.21	4q31.21
LU5_L	4	6	6	145,889,956	122,917,133	6q24.3	6q22.31
LU12_L	4	1	1	145,974,727	144,592,228	1q21.1	1q21.1
LU18_AD	3	1	1	146,038,815	144,182,345	1q21.1	1q21.1
LU20_AD	3	1	1	146,051,333	108,919,674	1q21.1	1p13.3
LU3_L	3	1	1	146,076,350	147,729,349	1q21.1	1q21.2
LU3_L	4	3	6	146,127,945	87,184,203	3q24	6q14.3
LU3_L	3	5	5	146,170,963	146,203,779	5q32	5q32
LU18_AD	3	8	6	146,184,261	12,668,476	8q24.3	6p24.1
LU3_L	3	5	5	146,203,779	146,170,963	5q32	5q32
LU3_L	3	8	6	146,246,609	57,625,688	8q24.3	6p11.2
LU21_L	5	8	6	146,249,883	57,626,636	8q24.3	6p11.2
LU3_AD	4	1	1	146,546,286	149,152,620	1q21.1	1q21.2
LU15_L	3	1	1	146,548,490	149,149,317	1q21.1	1q21.2
LU12_AD	3	1	1	146,590,827	151,994,348	1q21.1	1q21.3
LU18_L	3	5	19	146,609,849	41,971,354	5q32	19q13.2
LU3_L	5	5	19	146,611,801	41,970,292	5q32	19q13.2
LU18_L	3	5	4	146,612,340	22,587,917	5q32	4p15.2
LU7_L	4	2	5	146,709,807	30,950,577	2q22.3	5p13.3
LU18_L	4	7	12	146,789,281	69,089,192	7q35	12q15
LU18_AD	5	7	12	146,789,613	69,089,240	7q35	12q15
LU18_L	4	7	5	146,849,957	1,399,292	7q35	5p15.33
LU20_AD	3	1	1	147,161,105	147,194,960	1q21.2	1q21.2
LU20_AD	3	1	1	147,194,960	147,161,105	1q21.2	1q21.2
LU12_L	3	23	1	147,279,881	154,246,993	Xq28	1q21.3
LU18_L	3	2	1	147,303,848	204,205,213	2q22.3	1q32.1

LU4_AD	3	6	6	147,403,060	147,440,742	6q24.3	6q24.3
LU4_AD	3	6	6	147,440,742	147,403,060	6q24.3	6q24.3
LU18_L	5	7	12	147,453,538	65,161,844	7q35	12q14.3
LU3_L	3	23	23	147,480,878	147,515,625	Xq28	Xq28
LU3_L	3	23	23	147,515,625	147,480,878	Xq28	Xq28
LU4_AD	3	5	5	147,588,971	147,622,278	5q32	5q32
LU4_AD	3	5	5	147,622,278	147,588,971	5q32	5q32
LU20_L	3	5	5	147,661,485	147,696,437	5q32	5q32
LU20_L	3	5	5	147,696,437	147,661,485	5q32	5q32
LU4_AD	3	1	1	147,709,838	108,766,561	1q21.2	1p13.3
LU3_L	3	1	1	147,729,349	146,076,350	1q21.2	1q21.1
LU5_L	5	1	4	147,797,079	22,604,646	1q21.2	4p15.2
LU12_L	4	1	1	147,852,382	16,830,283	1q21.2	1p36.13
LU12_L	3	1	1	147,916,358	144,324,911	1q21.2	1q21.1
LU4_AD	3	7	2	148,011,197	57,457,309	7q36.1	2p16.1
LU12_L	4	1	1	148,024,821	144,617,852	1q21.2	1q21.1
LU11_AD	13	5	5	148,028,463	148,072,067	5q32	5q32
LU4_L	3	2	6	148,070,707	72,497,126	2q22.3	6q13
LU11_AD	13	5	5	148,072,067	148,028,463	5q32	5q32
LU18_L	3	5	5	148,081,597	148,118,331	5q32	5q32
LU18_L	3	5	5	148,118,331	148,081,597	5q32	5q32
LU18_L	3	3	12	148,136,958	68,162,799	3q24	12q15
LU21_AD	3	5	5	148,145,482	148,178,806	5q32	5q32
LU21_AD	3	5	5	148,178,806	148,145,482	5q32	5q32
LU12_L	3	1	1	148,247,649	149,230,904	1q21.2	1q21.2
LU18_L	4	5	5	148,415,099	148,494,346	5q32	5q32
LU18_L	4	5	5	148,494,346	148,415,099	5q32	5q32
LU18_AD	3	1	1	148,614,867	143,756,329	1q21.2	1q21.1
LU4_AD	3	1	1	148,623,862	143,752,905	1q21.2	1q21.1
LU8_L	3	3	3	148,630,619	148,662,430	3q24	3q24
LU14_L	4	1	12	148,631,954	43,180,840	1q21.2	12q12
LU8_L	3	3	3	148,662,430	148,630,619	3q24	3q24
LU16_AD	3	23	23	148,666,422	149,012,890	Xq28	Xq28
LU21_L	18	5	5	148,767,516	75,281,816	5q32	5q13.3
LU21_AD	21	5	5	148,767,750	75,282,221	5q32	5q13.3
LU18_AD	18	2	2	148,808,684	148,863,647	2q23.1	2q23.1
LU18_L	16	2	2	148,811,260	148,862,568	2q23.1	2q23.1
LU18_L	3	3	3	148,833,912	148,870,492	3q24	3q24
LU21_AD	3	1	10	148,846,826	39,038,067	1q21.2	10p11.1
LU18_L	16	2	2	148,862,568	148,811,260	2q23.1	2q23.1
LU18_AD	18	2	2	148,863,647	148,808,684	2q23.1	2q23.1
LU18_L	3	3	3	148,870,492	148,833,912	3q24	3q24
LU16_AD	4	23	9	148,904,012	88,981,902	Xq28	9q21.33
LU3_L	5	4	4	148,919,074	148,960,504	4q31.23	4q31.23

LU4_AD	3	23	20	148,957,855	773,607	Xq28	20p13
LU11_AD	4	23	8	148,957,987	66,043,918	Xq28	8q13.1
LU4_L	3	23	23	148,958,930	44,864,676	Xq28	Xp11.3
LU3_L	5	4	4	148,960,504	148,919,074	4q31.23	4q31.23
LU8_AD	3	1	7	149,004,772	64,606,128	1q21.2	7q11.21
LU3_L	3	1	1	149,008,098	143,762,767	1q21.2	1q21.1
LU16_AD	3	23	23	149,012,890	148,666,422	Xq28	Xq28
LU18_AD	4	2	21	149,014,357	29,767,683	2q23.1	21q21.3
LU16_L	5	5	23	149,032,463	67,872,846	5q32	Xq13.1
LU15_L	3	1	1	149,149,317	146,548,490	1q21.2	1q21.1
LU3_AD	4	1	1	149,152,620	146,546,286	1q21.2	1q21.1
LU4_AD	3	7	19	149,222,061	35,114,754	7q36.1	19q13.11
LU12_L	3	1	1	149,230,904	148,247,649	1q21.2	1q21.2
LU20_AD	3	4	5	149,260,151	39,453,205	4q31.23	5p13.1
LU5_L	5	1	1	149,293,097	149,330,782	1q21.2	1q21.2
LU5_L	5	1	1	149,330,782	149,293,097	1q21.2	1q21.2
LU14_L	3	6	6	149,420,686	149,461,899	6q25.1	6q25.1
LU14_L	3	6	6	149,461,899	149,420,686	6q25.1	6q25.1
LU14_L	3	1	12	149,539,327	43,182,475	1q21.2	12q12
LU3_L	3	2	2	149,625,205	149,665,059	2q23.1	2q23.1
LU3_L	3	2	2	149,665,059	149,625,205	2q23.1	2q23.1
LU5_L	5	7	12	149,729,870	9,719,610	7q36.1	12p13.31
LU20_AD	3	2	2	149,791,021	149,835,679	2q23.1	2q23.1
LU20_AD	3	2	2	149,835,679	149,791,021	2q23.1	2q23.1
LU4_AD	4	4	2	150,013,563	129,611,917	4q31.23	2q14.3
LU8_L	3	2	2	150,110,555	150,151,441	2q23.2	2q23.2
LU8_L	3	2	2	150,151,441	150,110,555	2q23.2	2q23.2
LU12_L	4	2	10	150,156,774	59,346,650	2q23.2	10q21.1
LU21_AD	3	2	2	150,179,395	84,702,441	2q23.2	2p11.2
LU4_L	3	2	2	150,221,643	150,251,536	2q23.2	2q23.2
LU4_L	3	2	2	150,251,536	150,221,643	2q23.2	2q23.2
LU20_AD	3	4	4	150,397,422	150,458,603	4q31.23	4q31.23
LU20_AD	3	4	4	150,458,603	150,397,422	4q31.23	4q31.23
LU20_AD	3	3	12	150,574,870	8,918,716	3q25.1	12p13.31
LU4_AD	6	1	1	150,605,713	201,589,569	1q21.3	1q32.1
LU4_AD	8	1	1	150,608,282	229,276,623	1q21.3	1q42.13
LU4_L	4	1	1	150,608,814	229,276,034	1q21.3	1q42.13
LU4_AD	7	1	1	150,612,695	57,431,323	1q21.3	1p32.2
LU4_AD	8	1	16	150,849,258	66,438,484	1q21.3	16q21
LU12_AD	3	6	11	151,176,430	101,102,628	6q25.1	11q22.1
LU3_L	7	4	4	151,333,029	161,418,833	4q31.3	4q32.1
LU3_L	4	5	1	151,400,904	207,763,118	5q33.1	1q32.2
LU20_L	3	7	2	151,727,984	184,375,123	7q36.1	2q32.1
LU21_L	3	7	5	151,731,969	157,307,786	7q36.1	5q33.3

LU18_AD	4	7	4	151,738,954	87,385,903	7q36.1	4q21.3
LU18_L	4	6	9	151,763,214	77,551,202	6q25.1	9q21.13
LU3_L	3	7	2	151,958,203	91,902,929	7q36.1	2p11.1
LU20_AD	4	1	1	151,987,827	21,792,239	1q21.3	1p36.12
LU3_AD	3	1	1	151,990,977	144,146,499	1q21.3	1q21.1
LU12_AD	3	1	1	151,994,348	146,590,827	1q21.3	1q21.1
LU4_AD	4	1	10	152,054,267	31,649,117	1q21.3	10p11.22
LU16_AD	4	3	4	152,316,416	168,362,328	3q25.2	4q32.3
LU18_AD	4	23	17	152,362,886	53,549,441	Xq28	17q22
LU6_L	4	1	12	152,452,425	216,467	1q21.3	12p13.33
LU4_L	3	23	19	152,506,042	58,506,514	Xq28	19q13.43
LU4_AD	3	2	2	152,771,089	152,804,865	2q23.3	2q23.3
LU4_AD	3	2	2	152,804,865	152,771,089	2q23.3	2q23.3
LU20_AD	3	4	4	152,973,762	153,015,398	4q31.3	4q31.3
LU20_AD	3	4	4	153,015,398	152,973,762	4q31.3	4q31.3
LU20_AD	4	5	5	153,041,083	153,080,694	5q33.2	5q33.2
LU4_AD	11	1	10	153,052,855	38,243,735	1q21.3	10p11.1
LU4_AD	5	1	1	153,072,619	207,034,587	1q21.3	1q32.1
LU4_L	5	1	16	153,073,736	3,266,841	1q21.3	16p13.3
LU4_L	3	1	1	153,074,023	207,034,417	1q21.3	1q32.1
LU4_AD	4	1	1	153,077,291	48,696,108	1q21.3	1p33
LU4_L	3	1	1	153,077,404	48,695,621	1q21.3	1p33
LU20_AD	4	5	5	153,080,694	153,041,083	5q33.2	5q33.2
LU14_AD	7	1	1	153,227,530	153,548,058	1q21.3	1q21.3
LU14_L	4	1	1	153,229,847	144,583,341	1q21.3	1q21.1
LU14_AD	12	1	1	153,229,909	144,578,651	1q21.3	1q21.1
LU20_AD	3	3	3	153,321,943	153,359,107	3q25.2	3q25.2
LU20_AD	3	3	3	153,359,107	153,321,943	3q25.2	3q25.2
LU14_AD	7	1	1	153,548,058	153,227,530	1q21.3	1q21.3
LU14_L	5	1	5	153,559,301	24,949,645	1q21.3	5p14.1
LU14_AD	12	1	5	153,561,127	24,947,242	1q21.3	5p14.1
LU14_AD	4	1	1	153,568,227	145,173,600	1q21.3	1q21.1
LU16_L	3	4	4	153,947,777	153,981,175	4q31.3	4q31.3
LU20_AD	3	3	3	153,975,963	154,006,977	3q25.2	3q25.2
LU16_L	3	4	4	153,981,175	153,947,777	4q31.3	4q31.3
LU20_AD	3	3	3	154,006,977	153,975,963	3q25.2	3q25.2
LU14_AD	6	1	10	154,081,525	132,662,151	1q21.3	10q26.3
LU20_AD	4	3	3	154,086,558	161,569,977	3q25.2	3q26.1
LU3_AD	3	23	23	154,109,698	154,611,524	Xq28	Xq28
LU21_L	4	1	19	154,129,227	42,014,912	1q21.3	19q13.2
LU7_L	5	1	19	154,129,260	42,013,351	1q21.3	19q13.2
LU15_L	5	1	19	154,129,610	42,013,023	1q21.3	19q13.2
LU20_AD	5	1	19	154,129,802	42,012,842	1q21.3	19q13.2
LU3_L	3	1	19	154,130,076	42,016,458	1q21.3	19q13.2

LU8_L	4	1	19	154,145,341	42,016,420	1q21.3	19q13.2
LU12_L	3	1	23	154,246,993	147,279,881	1q21.3	Xq28
LU3_L	3	7	7	154,268,631	154,372,119	7q36.2	7q36.2
LU3_L	3	7	7	154,372,119	154,268,631	7q36.2	7q36.2
LU3_AD	3	23	23	154,611,524	154,109,698	Xq28	Xq28
LU12_AD	3	4	6	154,983,218	40,831,269	4q31.3	6p21.1
LU16_AD	3	23	9	155,030,957	103,887,727	Xq28	9q31.1
LU15_L	3	7	14	155,031,302	103,702,302	7q36.2	14q32.32
LU11_AD	3	7	8	155,034,056	49,875,838	7q36.2	8q11.21
LU14_AD	48	1	1	155,061,700	144,923,413	1q22	1q21.1
LU14_L	26	1	1	155,064,580	144,921,859	1q22	1q21.1
LU14_L	5	1	1	155,105,801	174,935,942	1q22	1q25.1
LU14_AD	13	1	1	155,107,846	174,938,623	1q22	1q25.1
LU4_AD	23	5	18	155,213,706	77,817,164	5q33.2	18q23
LU4_L	3	5	18	155,213,943	77,816,896	5q33.2	18q23
LU18_L	4	1	8	155,404,106	128,426,699	1q22	8q24.21
LU14_L	4	1	10	155,406,759	42,383,599	1q22	10q11.21
LU14_AD	4	1	5	155,407,281	24,952,604	1q22	5p14.1
LU4_AD	5	5	19	155,447,766	35,541,456	5q33.2	19q13.12
LU7_L	3	1	5	155,597,884	156,083,475	1q22	5q33.3
LU5_AD	3	1	8	155,601,703	7,361,164	1q22	8p23.1
LU3_L	3	2	2	155,705,158	155,740,767	2q24.1	2q24.1
LU3_L	3	2	2	155,740,767	155,705,158	2q24.1	2q24.1
LU7_L	3	5	1	156,083,475	155,597,884	5q33.3	1q22
LU3_L	3	5	22	156,095,888	18,928,204	5q33.3	22q11.21
LU3_L	3	3	13	156,335,587	72,594,774	3q25.31	13q21.33
LU5_AD	3	4	3	156,379,079	89,635,972	4q32.1	3p11.1
LU4_AD	3	4	11	156,382,029	103,272,244	4q32.1	11q22.3
LU18_L	3	4	23	156,382,568	55,205,149	4q32.1	Xp11.21
LU21_L	4	4	3	156,386,129	40,294,147	4q32.1	3p22.1
LU3_L	3	5	5	156,690,198	156,720,826	5q33.3	5q33.3
LU18_L	3	1	23	156,713,139	130,780,420	1q23.1	Xq26.2
LU3_L	3	5	5	156,720,826	156,690,198	5q33.3	5q33.3
LU15_L	3	2	4	156,781,621	46,298,054	2q24.1	4p12
LU3_L	3	7	7	156,879,521	156,912,311	7q36.3	7q36.3
LU3_L	3	7	7	156,912,311	156,879,521	7q36.3	7q36.3
LU5_L	3	5	5	156,960,313	156,996,669	5q33.3	5q33.3
LU5_L	3	5	5	156,996,669	156,960,313	5q33.3	5q33.3
LU8_AD	4	4	2	157,028,074	207,883,627	4q32.1	2q33.3
LU18_AD	3	3	3	157,155,249	157,191,640	3q25.32	3q25.32
LU15_L	5	1	1	157,171,926	157,455,462	1q23.1	1q23.1
LU18_AD	3	3	3	157,191,640	157,155,249	3q25.32	3q25.32
LU21_L	3	5	7	157,307,786	151,731,969	5q33.3	7q36.1
LU15_L	5	1	1	157,455,462	157,171,926	1q23.1	1q23.1

LU18_AD	4	6	12	157,720,178	63,399,661	6q25.3	12q14.2
LU18_AD	3	1	1	157,922,360	157,963,137	1q23.1	1q23.1
LU4_AD	17	5	7	157,949,947	53,123,687	5q33.3	7p12.1
LU4_L	3	5	7	157,951,517	53,125,318	5q33.3	7p12.1
LU18_AD	3	1	1	157,963,137	157,922,360	1q23.1	1q23.1
LU4_L	5	5	7	158,078,479	53,170,242	5q33.3	7p12.1
LU4_AD	7	5	7	158,078,965	53,169,418	5q33.3	7p12.1
LU4_AD	14	5	7	158,230,149	52,767,890	5q33.3	7p12.1
LU4_AD	3	1	14	158,499,686	102,547,351	1q23.1	14q32.31
LU7_L	3	1	1	158,566,571	158,596,597	1q23.1	1q23.1
LU7_L	3	1	1	158,596,597	158,566,571	1q23.1	1q23.1
LU11_L	7	1	8	158,763,345	139,867,133	1q23.1	8q24.23
LU4_AD	3	5	23	158,794,262	65,439,977	5q33.3	Xq12
LU7_L	3	7	6	159,024,244	7,986,993	7q36.3	6p24.3
LU3_AD	3	5	5	159,063,179	159,094,075	5q33.3	5q33.3
LU3_AD	3	5	5	159,094,075	159,063,179	5q33.3	5q33.3
LU15_L	3	1	1	159,126,866	161,189,231	1q23.2	1q23.3
LU14_AD	4	6	8	159,682,906	68,784,909	6q25.3	8q13.2
LU4_AD	3	2	25	159,703,289	1,980,004	2q24.1	25
LU4_AD	3	2	5	159,706,535	98,532,634	2q24.1	5q21.1
LU4_AD	3	2	4	159,707,493	4,133,528	2q24.1	4p16.3
LU18_AD	4	2	3	159,731,731	129,743,757	2q24.1	3q22.1
LU7_AD	4	2	3	159,738,817	125,413,697	2q24.1	3q21.2
LU4_AD	25	5	5	159,832,131	163,910,622	5q33.3	5q34
LU4_AD	46	5	5	159,875,769	59,194,839	5q33.3	5q12.1
LU4_L	3	5	5	159,881,337	59,195,496	5q33.3	5q12.1
LU4_AD	24	5	5	159,890,411	64,622,195	5q33.3	5q12.3
LU4_AD	22	5	5	159,905,418	62,793,112	5q34	5q12.1
LU11_L	4	1	20	160,267,970	55,858,940	1q23.2	20q13.31
LU7_AD	3	1	20	160,287,187	52,491,878	1q23.2	20q13.2
LU11_L	8	1	20	160,299,986	55,864,022	1q23.2	20q13.31
LU18_L	3	6	5	160,514,663	72,316,433	6q25.3	5q13.2
LU4_AD	3	1	1	160,668,310	12,840,988	1q23.3	1p36.21
LU18_L	4	5	2	160,669,014	141,182,353	5q34	2q22.1
LU3_L	3	1	5	160,671,144	40,107,016	1q23.3	5p13.1
LU4_AD	4	5	3	160,671,933	39,624,362	5q34	3p22.1
LU3_AD	3	1	12	160,694,887	70,838,624	1q23.3	12q15
LU3_AD	26	2	2	160,755,201	160,804,997	2q24.2	2q24.2
LU3_L	20	2	2	160,755,820	160,804,563	2q24.2	2q24.2
LU3_L	20	2	2	160,804,563	160,755,820	2q24.2	2q24.2
LU3_AD	26	2	2	160,804,997	160,755,201	2q24.2	2q24.2
LU3_AD	4	6	6	160,939,874	161,350,446	6q25.3	6q26
LU20_AD	3	6	6	161,125,608	161,198,041	6q26	6q26
LU4_AD	5	5	5	161,151,002	161,181,476	5q34	5q34

LU4_AD	5	5	5	161,181,476	161,151,002	5q34	5q34
LU15_L	3	1	1	161,189,231	159,126,866	1q23.3	1q23.2
LU20_AD	3	6	6	161,198,041	161,125,608	6q26	6q26
LU11_AD	3	6	12	161,212,810	10,518,836	6q26	12p13.2
LU21_AD	3	1	4	161,220,671	59,327,319	1q23.3	4q12
LU16_AD	3	1	6	161,225,913	87,386,399	1q23.3	6q14.3
LU18_L	8	3	12	161,232,960	71,332,798	3q26.1	12q15
LU3_AD	4	6	6	161,350,446	160,939,874	6q26	6q25.3
LU3_L	8	4	4	161,414,641	187,122,683	4q32.1	4q35.2
LU3_L	7	4	4	161,418,833	151,333,029	4q32.1	4q31.3
LU3_AD	3	1	7	161,444,237	91,083,436	1q23.3	7q21.13
LU4_L	4	1	17	161,445,889	52,367,675	1q23.3	17q22
LU20_AD	4	3	3	161,569,977	154,086,558	3q26.1	3q25.2
LU18_L	3	3	1	161,762,754	220,894,541	3q26.1	1q41
LU5_L	3	3	7	161,762,775	24,833,282	3q26.1	7p15.3
LU18_L	16	3	12	161,763,613	68,939,895	3q26.1	12q15
LU15_AD	3	3	6	161,766,191	47,611,794	3q26.1	6p12.3
LU3_L	5	2	2	161,852,707	161,886,254	2q24.2	2q24.2
LU3_L	3	3	6	161,872,892	62,314,175	3q26.1	6q11.1
LU3_L	5	2	2	161,886,254	161,852,707	2q24.2	2q24.2
LU20_AD	5	1	1	162,061,963	162,095,530	1q23.3	1q23.3
LU20_AD	5	1	1	162,095,530	162,061,963	1q23.3	1q23.3
LU18_AD	13	2	5	162,138,146	2,640,017	2q24.2	5p15.33
LU18_L	23	2	5	162,138,215	2,639,919	2q24.2	5p15.33
LU21_L	3	1	1	162,141,560	162,183,468	1q23.3	1q23.3
LU21_L	3	1	1	162,183,468	162,141,560	1q23.3	1q23.3
LU21_L	4	1	2	162,281,458	208,262,333	1q23.3	2q33.3
LU4_AD	3	5	5	162,344,979	174,083,536	5q34	5q35.2
LU6_AD	5	6	6	163,125,662	35,209,676	6q26	6p21.31
LU21_AD	3	1	1	163,234,086	163,284,130	1q23.3	1q23.3
LU21_AD	3	1	1	163,284,130	163,234,086	1q23.3	1q23.3
LU8_AD	3	3	6	163,414,105	167,310,126	3q26.1	6q27
LU3_AD	3	3	10	163,520,577	110,805,712	3q26.1	10q25.1
LU18_AD	3	3	1	163,520,947	173,345,272	3q26.1	1q25.1
LU21_AD	3	4	4	163,548,370	163,580,875	4q32.2	4q32.2
LU21_AD	3	4	4	163,580,875	163,548,370	4q32.2	4q32.2
LU4_AD	25	5	5	163,910,622	159,832,131	5q34	5q33.3
LU4_L	16	3	3	163,930,258	163,868,461	3q26.1	3q26.1
LU4_AD	11	3	3	163,931,476	163,869,007	3q26.1	3q26.1
LU14_L	4	4	4	163,954,618	138,524,731	4q32.2	4q28.3
LU14_L	3	4	4	163,980,778	122,906,536	4q32.2	4q27
LU21_L	5	3	6	164,056,874	87,184,937	3q26.1	6q14.3
LU4_AD	18	5	23	164,069,743	85,166,559	5q34	Xq21.2
LU18_AD	3	3	16	164,534,562	21,640,662	3q26.1	16p12.2

LU18_AD	3	6	6	164,563,675	164,595,732	6q27	6q27
LU18_AD	3	6	6	164,595,732	164,563,675	6q27	6q27
LU4_AD	12	5	7	164,626,640	52,802,723	5q34	7p12.1
LU4_AD	9	5	19	164,631,878	58,358,952	5q34	19q13.43
LU4_AD	5	5	7	164,651,034	52,795,548	5q34	7p12.1
LU12_L	3	6	1	164,761,030	229,316,338	6q27	1q42.13
LU4_AD	4	5	5	164,820,355	56,826,352	5q34	5q11.2
LU3_AD	5	1	1	164,977,840	165,009,915	1q23.3	1q23.3
LU3_AD	5	1	1	165,009,915	164,977,840	1q23.3	1q23.3
LU3_AD	3	4	4	165,101,062	165,136,263	4q32.3	4q32.3
LU14_L	3	4	4	165,104,071	86,356,608	4q32.3	4q21.23
LU3_AD	3	4	4	165,136,263	165,101,062	4q32.3	4q32.3
LU3_L	3	4	1	165,178,108	253,565	4q32.3	1p36.33
LU7_L	6	4	17	165,531,132	67,499,795	4q32.3	17q24.3
LU21_AD	3	4	2	165,671,337	120,134,078	4q32.3	2q14.2
LU18_AD	35	2	12	165,842,686	63,744,775	2q24.3	12q14.2
LU18_L	24	2	12	165,844,314	63,743,104	2q24.3	12q14.2
LU15_L	3	6	4	165,873,007	177,266,462	6q27	4q34.2
LU3_L	3	6	20	165,873,195	5,280,563	6q27	20p12.3
LU3_L	3	6	4	165,877,442	92,099,055	6q27	4q22.1
LU6_L	6	2	9	165,976,047	14,605,064	2q24.3	9p22.3
LU3_L	3	6	6	166,190,522	166,220,809	6q27	6q27
LU3_L	3	6	6	166,220,809	166,190,522	6q27	6q27
LU18_L	4	3	3	166,223,415	6,436,630	3q26.1	3p26.1
LU18_L	3	2	2	166,237,573	167,063,271	2q24.3	2q24.3
LU20_AD	5	1	4	166,575,496	191,028,394	1q24.1	4q35.2
LU8_L	3	1	4	166,578,717	9,664,702	1q24.1	4p16.1
LU4_AD	21	5	5	166,615,275	169,245,810	5q34	5q35.1
LU4_AD	3	5	5	166,745,444	172,444,797	5q34	5q35.1
LU4_AD	15	6	6	166,747,376	166,457,616	6q27	6q27
LU3_L	4	2	2	166,794,136	166,827,458	2q24.3	2q24.3
LU4_AD	9	5	5	166,825,401	167,132,050	5q34	5q34
LU3_L	4	2	2	166,827,458	166,794,136	2q24.3	2q24.3
LU4_AD	7	5	5	166,902,741	158,613,190	5q34	5q33.3
LU21_AD	8	5	5	166,998,270	167,911,270	5q34	5q34
LU4_AD	4	5	5	167,001,671	172,392,565	5q34	5q35.1
LU4_AD	7	5	5	167,040,360	172,248,472	5q34	5q35.1
LU18_L	3	2	2	167,063,271	166,237,573	2q24.3	2q24.3
LU4_AD	9	5	5	167,132,050	166,825,401	5q34	5q34
LU15_L	5	3	6	167,148,241	40,829,562	3q26.1	6p21.1
LU18_L	3	3	2	167,265,523	44,871,369	3q26.1	2p21
LU8_AD	3	6	3	167,310,126	163,414,105	6q27	3q26.1
LU18_AD	27	6	8	167,333,893	98,863,550	6q27	8q22.1
LU18_L	25	6	8	167,334,518	98,863,763	6q27	8q22.1

LU20_AD	4	2	2	167,362,403	167,396,076	2q24.3	2q24.3
LU20_AD	4	2	2	167,396,076	167,362,403	2q24.3	2q24.3
LU21_AD	7	5	9	167,819,303	29,577,779	5q34	9p21.1
LU4_AD	3	3	3	167,899,660	167,940,943	3q26.2	3q26.2
LU21_AD	8	5	5	167,911,270	166,998,270	5q34	5q34
LU4_AD	3	5	7	167,934,106	45,361,843	5q34	7p13
LU4_AD	3	3	3	167,940,943	167,899,660	3q26.2	3q26.2
LU16_AD	4	4	3	168,362,328	152,316,416	4q32.3	3q25.2
LU3_L	3	4	4	168,428,441	168,465,572	4q32.3	4q32.3
LU3_L	3	4	4	168,465,572	168,428,441	4q32.3	4q32.3
LU16_AD	3	1	1	168,473,200	168,504,624	1q24.2	1q24.2
LU16_AD	3	1	1	168,504,624	168,473,200	1q24.2	1q24.2
LU4_L	3	1	1	168,530,452	168,560,491	1q24.2	1q24.2
LU3_L	4	2	2	168,552,483	168,597,052	2q24.3	2q24.3
LU4_L	3	1	1	168,560,491	168,530,452	1q24.2	1q24.2
LU3_L	4	2	2	168,597,052	168,552,483	2q24.3	2q24.3
LU12_AD	5	4	6	168,797,286	81,362,758	4q32.3	6q14.1
LU4_AD	6	5	10	169,065,363	55,114,243	5q35.1	10q21.1
LU3_L	3	2	23	169,114,096	120,587,973	2q24.3	Xq24
LU3_L	5	3	3	169,167,759	169,199,656	3q26.2	3q26.2
LU3_L	5	3	3	169,199,656	169,167,759	3q26.2	3q26.2
LU4_AD	21	5	5	169,245,810	166,615,275	5q35.1	5q34
LU18_AD	3	5	5	169,407,396	169,458,225	5q35.1	5q35.1
LU18_AD	3	5	5	169,458,225	169,407,396	5q35.1	5q35.1
LU4_L	4	1	7	169,635,010	144,117,779	1q24.2	7q35
LU20_AD	5	2	2	169,656,117	169,690,237	2q24.3	2q24.3
LU20_AD	5	2	2	169,690,237	169,656,117	2q24.3	2q24.3
LU4_AD	4	5	16	169,941,847	207,022	5q35.1	16p13.3
LU20_AD	5	6	22	170,116,072	25,744,045	6q27	22q11.23
LU5_L	3	6	6	170,235,690	170,272,495	6q27	6q27
LU5_L	3	6	6	170,272,495	170,235,690	6q27	6q27
LU3_L	6	5	5	170,315,808	170,352,068	5q35.1	5q35.1
LU3_L	6	5	5	170,352,068	170,315,808	5q35.1	5q35.1
LU4_AD	4	1	6	170,909,985	110,198,905	1q24.3	6q21
LU21_L	3	6	5	170,932,938	180,781,211	6q27	5q35.3
LU11_AD	7	2	8	171,005,635	5,580,389	2q31.1	8p23.2
LU18_L	3	1	15	171,238,601	71,453,905	1q24.3	15q23
LU18_L	5	2	11	171,472,714	92,674,334	2q31.1	11q14.3
LU4_AD	3	1	4	171,566,215	116,877,557	1q24.3	4q26
LU18_L	4	1	20	171,571,646	15,960,954	1q24.3	20p12.1
LU4_AD	7	5	5	171,616,593	174,935,929	5q35.1	5q35.2
LU4_AD	3	2	9	171,906,735	125,449,309	2q31.1	9q33.2
LU21_AD	12	5	5	172,007,628	20,060,621	5q35.1	5p14.3
LU3_L	3	3	3	172,138,482	116,363,398	3q26.31	3q13.31

LU4_AD	37	5	5	172,152,688	59,198,365	5q35.1	5q12.1
LU4_L	4	3	3	172,178,598	172,208,489	3q26.31	3q26.31
LU4_L	4	3	3	172,208,489	172,178,598	3q26.31	3q26.31
LU4_AD	7	5	5	172,248,472	167,040,360	5q35.1	5q34
LU4_AD	4	5	5	172,392,565	167,001,671	5q35.1	5q34
LU4_AD	5	5	5	172,423,822	61,148,207	5q35.1	5q12.1
LU4_AD	3	5	5	172,444,797	166,745,444	5q35.1	5q34
LU4_AD	8	5	5	172,730,332	61,937,485	5q35.1	5q12.1
LU3_L	3	5	5	172,751,586	172,781,508	5q35.1	5q35.1
LU3_L	3	5	5	172,781,508	172,751,586	5q35.1	5q35.1
LU4_AD	12	5	23	173,026,999	88,403,372	5q35.2	Xq21.31
LU4_AD	7	5	23	173,027,818	84,386,059	5q35.2	Xq21.1
LU20_L	3	1	8	173,339,186	54,053,705	1q25.1	8q11.23
LU18_AD	3	1	3	173,345,272	163,520,947	1q25.1	3q26.1
LU20_AD	4	1	1	173,382,352	173,423,473	1q25.1	1q25.1
LU3_L	3	2	11	173,407,147	96,455,541	2q31.1	11q21
LU20_AD	4	1	1	173,423,473	173,382,352	1q25.1	1q25.1
LU20_L	3	4	4	173,498,057	173,530,717	4q34.1	4q34.1
LU20_L	3	4	4	173,530,717	173,498,057	4q34.1	4q34.1
LU4_AD	7	5	5	173,546,511	173,579,796	5q35.2	5q35.2
LU4_AD	7	5	5	173,579,796	173,546,511	5q35.2	5q35.2
LU20_AD	3	3	3	173,709,454	173,739,940	3q26.31	3q26.31
LU20_AD	3	3	3	173,739,940	173,709,454	3q26.31	3q26.31
LU3_L	3	5	5	173,944,572	173,980,725	5q35.2	5q35.2
LU3_L	3	5	5	173,980,725	173,944,572	5q35.2	5q35.2
LU18_L	3	4	10	174,025,280	61,525,378	4q34.1	10q21.2
LU4_AD	3	5	5	174,083,536	162,344,979	5q35.2	5q34
LU4_AD	4	5	5	174,121,203	175,264,235	5q35.2	5q35.2
LU4_AD	3	5	5	174,401,209	174,445,426	5q35.2	5q35.2
LU4_AD	3	5	5	174,445,426	174,401,209	5q35.2	5q35.2
LU4_AD	4	4	11	174,699,234	12,635,201	4q34.1	11p15.3
LU18_AD	3	5	5	174,853,626	174,897,289	5q35.2	5q35.2
LU18_AD	3	5	5	174,897,289	174,853,626	5q35.2	5q35.2
LU4_AD	7	5	5	174,935,929	171,616,593	5q35.2	5q35.1
LU14_L	5	1	1	174,935,942	155,105,801	1q25.1	1q22
LU14_AD	13	1	1	174,938,623	155,107,846	1q25.1	1q22
LU3_L	4	1	24	175,068,466	16,004,217	1q25.1	Yq11.221
LU4_L	3	5	5	175,151,377	175,183,477	5q35.2	5q35.2
LU4_L	3	5	5	175,183,477	175,151,377	5q35.2	5q35.2
LU4_AD	4	5	5	175,264,235	174,121,203	5q35.2	5q35.2
LU18_L	4	3	2	175,544,894	189,036,552	3q26.31	2q32.1
LU3_L	3	4	10	175,901,933	85,727,092	4q34.1	10q23.1
LU6_AD	4	5	5	176,027,314	176,143,661	5q35.2	5q35.2
LU6_AD	4	5	5	176,143,661	176,027,314	5q35.2	5q35.2

LU5_AD	3	3	3	176,391,226	176,422,271	3q26.32	3q26.32
LU5_AD	3	3	3	176,422,271	176,391,226	3q26.32	3q26.32
LU16_L	5	1	1	176,620,723	98,241,142	1q25.2	1p21.3
LU16_AD	18	1	1	176,621,237	98,241,163	1q25.2	1p21.3
LU3_AD	5	5	12	176,689,789	46,950,712	5q35.3	12q13.11
LU18_AD	6	3	3	176,736,551	193,321,578	3q26.32	3q29
LU21_L	4	5	9	177,173,977	22,042,793	5q35.3	9p21.3
LU21_AD	7	5	9	177,174,229	22,042,803	5q35.3	9p21.3
LU8_L	4	4	5	177,266,196	19,706,178	4q34.2	5p14.3
LU15_L	3	4	6	177,266,462	165,873,007	4q34.2	6q27
LU20_L	4	4	2	177,270,599	99,884,461	4q34.2	2q11.2
LU4_AD	15	5	5	177,410,532	57,938,433	5q35.3	5q11.2
LU21_L	3	2	12	178,081,317	52,106,582	2q31.2	12q13.13
LU4_L	3	3	3	178,369,936	178,402,059	3q26.32	3q26.32
LU4_L	3	3	3	178,402,059	178,369,936	3q26.32	3q26.32
LU4_AD	3	1	10	178,524,626	132,094,133	1q25.2	10q26.3
LU18_L	83	5	8	178,666,006	71,245,750	5q35.3	8q13.3
LU18_AD	68	5	8	178,672,002	71,241,281	5q35.3	8q13.3
LU18_AD	7	5	8	178,680,690	71,238,718	5q35.3	8q13.3
LU6_AD	5	5	5	178,785,134	42,011,709	5q35.3	5p13.1
LU3_L	3	1	1	179,035,613	113,509,640	1q25.2	1p13.2
LU16_L	14	1	1	179,096,259	68,105,195	1q25.2	1p31.3
LU16_AD	6	1	1	179,096,417	68,105,687	1q25.2	1p31.3
LU4_AD	4	4	23	179,145,623	25,443,695	4q34.3	Xp21.3
LU21_L	6	5	9	179,153,939	39,045,847	5q35.3	9p13.1
LU21_AD	6	5	9	179,155,246	39,044,641	5q35.3	9p13.1
LU16_AD	5	5	5	180,112,754	180,215,588	5q35.3	5q35.3
LU21_L	3	1	1	180,172,613	180,207,959	1q25.2	1q25.2
LU21_L	3	1	1	180,207,959	180,172,613	1q25.2	1q25.2
LU16_AD	5	5	5	180,215,588	180,112,754	5q35.3	5q35.3
LU14_L	3	5	1	180,774,885	224,118,415	5q35.3	1q42.11
LU21_L	3	5	6	180,781,211	170,932,938	5q35.3	6q27
LU18_AD	3	1	4	181,218,768	140,559,968	1q25.3	4q31.1
LU20_AD	3	1	17	181,220,789	26,017,992	1q25.3	17q11.2
LU14_L	4	1	12	181,407,746	70,913,188	1q25.3	12q15
LU3_AD	6	4	4	181,446,129	181,494,693	4q34.3	4q34.3
LU3_AD	6	4	4	181,494,693	181,446,129	4q34.3	4q34.3
LU3_L	4	3	15	181,701,984	48,912,098	3q26.33	15q21.1
LU21_AD	3	2	2	181,956,786	181,988,629	2q31.3	2q31.3
LU21_AD	3	2	2	181,988,629	181,956,786	2q31.3	2q31.3
LU21_AD	3	4	4	182,043,131	182,074,480	4q34.3	4q34.3
LU21_AD	3	4	4	182,074,480	182,043,131	4q34.3	4q34.3
LU12_AD	4	2	2	182,444,746	130,501,971	2q31.3	2q21.1
LU20_AD	3	3	5	183,960,344	5,374,711	3q27.1	5p15.32

LU3_AD	4	1	1	184,211,558	184,268,052	1q25.3	1q25.3
LU3_AD	4	1	1	184,268,052	184,211,558	1q25.3	1q25.3
LU4_L	3	2	7	184,368,216	108,939,514	2q32.1	7q31.1
LU20_L	3	2	7	184,375,123	151,727,984	2q32.1	7q36.1
LU18_AD	6	3	5	184,731,057	1,578,543	3q27.2	5p15.33
LU20_L	3	3	1	184,734,343	55,100,637	3q27.2	1p32.3
LU18_L	3	3	1	184,734,715	94,912,154	3q27.2	1p21.3
LU3_AD	4	3	9	184,823,773	121,395,615	3q27.2	9q33.1
LU4_AD	5	3	9	184,823,994	121,399,349	3q27.2	9q33.1
LU12_L	3	4	9	185,479,391	45,061,151	4q35.1	9p11.2
LU7_L	4	4	9	185,487,713	45,057,008	4q35.1	9p11.2
LU5_L	3	2	2	185,727,619	185,788,652	2q32.1	2q32.1
LU5_L	3	2	2	185,788,652	185,727,619	2q32.1	2q32.1
LU18_AD	3	4	12	185,972,053	94,751,095	4q35.1	12q22
LU18_L	3	2	2	186,485,567	186,527,940	2q32.1	2q32.1
LU7_AD	4	3	23	186,507,186	52,861,315	3q27.3	Xp11.22
LU18_L	3	2	2	186,527,940	186,485,567	2q32.1	2q32.1
LU3_AD	16	1	1	186,671,976	209,987,778	1q31.1	1q32.2
LU3_L	15	1	1	186,672,531	209,986,770	1q31.1	1q32.2
LU18_L	3	1	15	186,883,030	55,803,780	1q31.1	15q21.3
LU5_L	3	1	24	186,888,903	8,673,824	1q31.1	Yp11.2
LU3_L	8	4	4	187,122,683	161,414,641	4q35.2	4q32.1
LU3_AD	4	2	2	188,096,890	188,147,915	2q32.1	2q32.1
LU3_AD	4	2	2	188,147,915	188,096,890	2q32.1	2q32.1
LU3_L	4	1	5	188,231,192	129,970,721	1q31.1	5q23.3
LU4_AD	5	2	2	188,647,310	188,684,641	2q32.1	2q32.1
LU4_AD	3	4	4	188,680,328	188,719,594	4q35.2	4q35.2
LU4_AD	5	2	2	188,684,641	188,647,310	2q32.1	2q32.1
LU4_AD	3	4	4	188,719,594	188,680,328	4q35.2	4q35.2
LU3_L	4	3	3	188,800,600	188,837,534	3q28	3q28
LU3_L	4	3	3	188,837,534	188,800,600	3q28	3q28
LU18_L	4	2	3	189,036,552	175,544,894	2q32.1	3q26.31
LU3_L	4	4	4	190,411,654	190,444,926	4q35.2	4q35.2
LU3_L	4	4	4	190,444,926	190,411,654	4q35.2	4q35.2
LU3_L	11	4	4	190,479,141	190,509,207	4q35.2	4q35.2
LU3_L	11	4	4	190,509,207	190,479,141	4q35.2	4q35.2
LU18_AD	5	4	6	190,538,109	9,288,305	4q35.2	6p24.3
LU12_L	4	3	19	190,594,362	51,107,251	3q28	19q13.33
LU15_L	3	3	19	190,594,813	51,106,866	3q28	19q13.33
LU4_AD	4	4	20	190,675,816	25,762,716	4q35.2	20p11.1
LU21_L	3	4	20	190,677,777	25,762,822	4q35.2	20p11.1
LU4_L	5	4	9	190,679,350	67,790,063	4q35.2	9q13
LU7_L	3	4	12	190,816,730	34,832,304	4q35.2	12p11.1
LU18_L	3	4	5	190,819,555	46,339,539	4q35.2	5p11

LU20_AD	5	4	1	191,028,394	166,575,496	4q35.2	1q24.1
LU3_AD	5	2	2	191,065,559	191,095,818	2q32.2	2q32.2
LU3_AD	5	2	2	191,095,818	191,065,559	2q32.2	2q32.2
LU21_AD	4	2	2	191,125,563	191,169,814	2q32.2	2q32.2
LU21_AD	4	2	2	191,169,814	191,125,563	2q32.2	2q32.2
LU3_AD	5	1	1	191,338,363	191,376,170	1q31.2	1q31.2
LU3_AD	3	2	2	191,354,490	191,384,390	2q32.2	2q32.2
LU7_L	8	3	1	191,374,165	206,209,695	3q28	1q32.1
LU7_AD	5	3	1	191,375,179	206,209,253	3q28	1q32.1
LU3_AD	5	1	1	191,376,170	191,338,363	1q31.2	1q31.2
LU3_AD	3	2	2	191,384,390	191,354,490	2q32.2	2q32.2
LU15_L	3	1	1	191,499,102	191,533,681	1q31.2	1q31.2
LU15_L	3	1	1	191,533,681	191,499,102	1q31.2	1q31.2
LU7_L	4	2	2	192,577,108	242,690,649	2q32.3	2q37.3
LU14_L	9	3	3	192,789,543	192,894,441	3q29	3q29
LU14_L	9	3	3	192,894,441	192,789,543	3q29	3q29
LU11_AD	4	1	1	193,169,998	193,243,753	1q31.2	1q31.2
LU11_AD	4	1	1	193,243,753	193,169,998	1q31.2	1q31.2
LU18_AD	6	3	3	193,321,578	176,736,551	3q29	3q26.32
LU8_L	3	2	5	194,393,304	78,289,120	2q32.3	5q14.1
LU4_L	3	1	3	194,895,556	116,292,089	1q31.3	3q13.31
LU3_L	3	2	2	195,249,644	195,279,261	2q32.3	2q32.3
LU3_L	3	2	2	195,279,261	195,249,644	2q32.3	2q32.3
LU18_AD	6	3	12	195,679,263	67,132,543	3q29	12q14.3
LU18_L	9	3	12	195,679,465	67,131,891	3q29	12q14.3
LU20_L	4	1	4	196,181,108	73,030,844	1q31.3	4q13.3
LU3_AD	15	1	1	197,253,236	169,308,180	1q31.3	1q24.2
LU3_L	8	1	1	197,255,014	169,308,357	1q31.3	1q24.2
LU3_L	3	2	2	197,302,852	197,332,468	2q32.3	2q32.3
LU3_L	3	2	2	197,332,468	197,302,852	2q32.3	2q32.3
LU15_L	3	3	5	197,361,907	26,222,314	3q29	5p14.1
LU14_AD	4	1	1	197,587,033	222,625,262	1q31.3	1q41
LU8_L	3	3	24	197,846,737	19,629,113	3q29	Yq11.221
LU14_AD	7	1	1	197,858,059	223,830,985	1q31.3	1q41
LU14_AD	3	1	1	197,877,710	222,620,376	1q31.3	1q41
LU14_AD	5	1	1	197,885,051	211,927,145	1q31.3	1q32.3
LU4_AD	5	3	1	197,913,518	338,891	3q29	1p36.33
LU20_AD	3	3	1	197,918,637	664,882	3q29	1p36.33
LU14_AD	3	1	1	197,923,457	221,643,288	1q31.3	1q41
LU21_L	4	2	2	198,750,554	198,786,179	2q33.1	2q33.1
LU21_L	4	2	2	198,786,179	198,750,554	2q33.1	2q33.1
LU14_AD	13	1	1	199,015,059	222,326,744	1q32.1	1q41
LU3_L	5	1	1	199,187,657	199,224,363	1q32.1	1q32.1
LU3_L	5	1	1	199,224,363	199,187,657	1q32.1	1q32.1

LU3_AD	5	2	2	200,553,708	200,584,249	2q33.1	2q33.1
LU3_AD	5	2	2	200,584,249	200,553,708	2q33.1	2q33.1
LU3_L	3	2	2	200,957,215	200,998,756	2q33.1	2q33.1
LU3_L	3	2	2	200,998,756	200,957,215	2q33.1	2q33.1
LU14_AD	6	1	1	201,133,429	211,909,221	1q32.1	1q32.3
LU14_AD	9	1	1	201,138,418	221,208,016	1q32.1	1q41
LU4_AD	6	1	1	201,589,569	150,605,713	1q32.1	1q21.3
LU18_AD	3	2	9	201,928,656	4,944,438	2q33.1	9p24.1
LU3_L	3	2	2	202,171,284	202,203,773	2q33.1	2q33.1
LU3_L	3	2	2	202,203,773	202,171,284	2q33.1	2q33.1
LU3_AD	3	1	1	202,366,475	202,404,181	1q32.1	1q32.1
LU3_AD	3	1	1	202,404,181	202,366,475	1q32.1	1q32.1
LU4_AD	4	1	9	202,834,284	34,668,662	1q32.1	9p13.3
LU14_AD	7	1	1	203,266,042	219,206,647	1q32.1	1q41
LU14_AD	3	1	1	203,340,156	204,296,803	1q32.1	1q32.1
LU18_L	3	1	2	204,205,213	147,303,848	1q32.1	2q22.3
LU14_AD	8	1	1	204,286,875	222,425,061	1q32.1	1q41
LU14_AD	3	1	1	204,296,803	203,340,156	1q32.1	1q32.1
LU14_AD	3	1	1	204,606,995	222,519,110	1q32.1	1q41
LU8_AD	4	2	2	204,824,756	207,672,453	2q33.2	2q33.3
LU12_AD	4	2	13	204,829,287	61,665,368	2q33.2	13q21.2
LU12_AD	3	1	6	205,836,678	85,417,944	1q32.1	6q14.3
LU7_AD	5	1	3	206,209,253	191,375,179	1q32.1	3q28
LU7_L	8	1	3	206,209,695	191,374,165	1q32.1	3q28
LU21_L	4	1	4	206,283,385	92,276,048	1q32.1	4q22.1
LU18_L	3	1	12	206,286,638	68,938,175	1q32.1	12q15
LU4_L	3	1	1	207,034,417	153,074,023	1q32.1	1q21.3
LU4_AD	5	1	1	207,034,587	153,072,619	1q32.1	1q21.3
LU14_AD	4	1	10	207,194,662	125,557,657	1q32.1	10q26.13
LU16_AD	5	2	17	207,579,498	33,120,271	2q33.3	17q12
LU21_AD	3	2	17	207,580,405	33,119,601	2q33.3	17q12
LU20_AD	4	1	22	207,634,822	51,125,575	1q32.2	22q13.33
LU18_L	3	2	5	207,670,846	120,034,275	2q33.3	5q23.1
LU8_AD	4	2	2	207,672,453	204,824,756	2q33.3	2q33.2
LU8_L	3	1	1	207,750,939	207,782,740	1q32.2	1q32.2
LU3_L	4	1	5	207,763,118	151,400,904	1q32.2	5q33.1
LU8_L	3	1	1	207,782,740	207,750,939	1q32.2	1q32.2
LU8_AD	4	2	4	207,883,627	157,028,074	2q33.3	4q32.1
LU12_L	4	2	4	207,884,294	20,634,982	2q33.3	4p15.31
LU14_AD	5	1	1	208,183,231	224,064,402	1q32.2	1q41
LU21_L	4	2	1	208,262,333	162,281,458	2q33.3	1q23.3
LU11_AD	3	2	5	208,475,786	78,421,769	2q33.3	5q14.1
LU14_AD	6	1	1	208,861,884	218,669,250	1q32.2	1q41
LU3_AD	4	1	1	209,236,075	209,267,179	1q32.2	1q32.2

LU18_L	3	2	5	209,259,270	114,417,304	2q34	5q22.3
LU3_AD	4	1	1	209,267,179	209,236,075	1q32.2	1q32.2
LU3_L	5	2	2	209,554,871	209,596,228	2q34	2q34
LU3_L	5	2	2	209,596,228	209,554,871	2q34	2q34
LU4_AD	23	1	1	209,684,161	217,701,485	1q32.2	1q41
LU4_L	11	1	1	209,684,297	217,702,204	1q32.2	1q41
LU4_AD	6	1	10	209,856,792	38,238,901	1q32.2	10p11.1
LU4_AD	9	1	10	209,884,150	82,633,841	1q32.2	10q23.1
LU3_AD	3	1	1	209,887,747	209,942,927	1q32.2	1q32.2
LU3_AD	3	1	1	209,942,927	209,887,747	1q32.2	1q32.2
LU14_AD	7	1	1	209,945,063	221,911,876	1q32.2	1q41
LU3_L	15	1	1	209,986,770	186,672,531	1q32.2	1q31.1
LU3_AD	16	1	1	209,987,778	186,671,976	1q32.2	1q31.1
LU14_AD	3	1	1	210,226,208	210,259,092	1q32.2	1q32.2
LU14_AD	3	1	1	210,259,092	210,226,208	1q32.2	1q32.2
LU16_AD	4	1	6	210,364,586	40,835,401	1q32.2	6p21.1
LU4_L	3	1	13	210,365,506	49,441,751	1q32.2	13q14.2
LU15_L	5	1	6	210,365,755	40,828,606	1q32.2	6p21.1
LU14_AD	6	1	1	210,422,135	213,218,943	1q32.2	1q32.3
LU4_AD	12	1	1	210,802,186	218,150,159	1q32.2	1q41
LU3_AD	5	1	1	211,217,796	211,250,085	1q32.2	1q32.2
LU3_AD	5	1	1	211,250,085	211,217,796	1q32.2	1q32.2
LU18_L	4	1	5	211,515,128	31,394,141	1q32.3	5p13.3
LU14_AD	6	1	1	211,909,221	201,133,429	1q32.3	1q32.1
LU14_AD	5	1	1	211,927,145	197,885,051	1q32.3	1q31.3
LU18_L	3	2	2	212,630,567	212,663,676	2q34	2q34
LU18_L	3	2	2	212,663,676	212,630,567	2q34	2q34
LU5_AD	3	2	2	212,889,580	212,940,937	2q34	2q34
LU5_AD	3	2	2	212,940,937	212,889,580	2q34	2q34
LU14_AD	6	1	1	213,218,943	210,422,135	1q32.3	1q32.2
LU3_AD	3	2	2	213,386,385	213,416,213	2q34	2q34
LU3_AD	3	2	2	213,416,213	213,386,385	2q34	2q34
LU20_AD	3	1	1	214,062,777	214,093,764	1q32.3	1q32.3
LU20_AD	3	1	1	214,093,764	214,062,777	1q32.3	1q32.3
LU14_AD	7	1	1	214,141,887	224,284,326	1q32.3	1q42.11
LU14_AD	6	1	1	214,290,718	224,653,811	1q32.3	1q42.12
LU3_L	5	1	1	215,646,167	215,681,288	1q41	1q41
LU3_L	5	1	1	215,681,288	215,646,167	1q41	1q41
LU18_L	4	2	12	216,787,228	68,166,636	2q35	12q15
LU15_L	4	2	12	217,492,521	55,381,409	2q35	12q13.2
LU4_L	4	1	1	217,690,203	218,156,642	1q41	1q41
LU4_AD	6	1	1	217,691,800	218,157,042	1q41	1q41
LU4_AD	23	1	1	217,701,485	209,684,161	1q41	1q32.2
LU4_L	11	1	1	217,702,204	209,684,297	1q41	1q32.2

LU4_AD	3	2	2	217,909,427	217,939,748	2q35	2q35
LU4_AD	3	2	2	217,939,748	217,909,427	2q35	2q35
LU6_L	3	2	2	217,964,036	217,994,513	2q35	2q35
LU6_L	3	2	2	217,994,513	217,964,036	2q35	2q35
LU4_AD	12	1	1	218,150,159	210,802,186	1q41	1q32.2
LU4_L	4	1	1	218,156,642	217,690,203	1q41	1q41
LU4_AD	6	1	1	218,157,042	217,691,800	1q41	1q41
LU5_AD	3	1	1	218,630,275	218,663,807	1q41	1q41
LU5_AD	3	1	1	218,663,807	218,630,275	1q41	1q41
LU14_AD	6	1	1	218,669,250	208,861,884	1q41	1q32.2
LU14_AD	4	1	1	218,679,459	219,897,937	1q41	1q41
LU14_AD	7	1	1	219,206,647	203,266,042	1q41	1q32.1
LU5_L	3	1	1	219,577,497	219,608,105	1q41	1q41
LU5_L	3	1	1	219,608,105	219,577,497	1q41	1q41
LU14_AD	4	1	1	219,897,937	218,679,459	1q41	1q41
LU4_AD	6	1	1	220,434,022	220,203,979	1q41	1q41
LU18_L	3	1	3	220,894,541	161,762,754	1q41	3q26.1
LU14_AD	6	1	1	221,199,876	222,109,840	1q41	1q41
LU14_AD	9	1	1	221,208,016	201,138,418	1q41	1q32.1
LU14_AD	3	1	1	221,643,288	197,923,457	1q41	1q31.3
LU4_L	3	1	1	221,821,729	221,853,056	1q41	1q41
LU4_L	3	1	1	221,853,056	221,821,729	1q41	1q41
LU14_AD	7	1	1	221,911,876	209,945,063	1q41	1q32.2
LU3_AD	3	2	2	221,912,326	221,941,940	2q36.1	2q36.1
LU3_AD	3	2	2	221,941,940	221,912,326	2q36.1	2q36.1
LU14_AD	6	1	1	222,109,840	221,199,876	1q41	1q41
LU14_AD	13	1	1	222,326,744	199,015,059	1q41	1q32.1
LU14_AD	8	1	1	222,425,061	204,286,875	1q41	1q32.1
LU14_AD	3	1	1	222,519,110	204,606,995	1q41	1q32.1
LU14_AD	3	1	1	222,620,376	197,877,710	1q41	1q31.3
LU14_AD	4	1	1	222,625,262	197,587,033	1q41	1q31.3
LU20_L	4	1	7	222,651,200	65,845,125	1q41	7q11.21
LU4_AD	4	1	1	222,686,567	337,369	1q41	1p36.33
LU18_L	9	2	12	222,809,365	66,517,045	2q36.1	12q14.3
LU7_AD	3	1	1	223,713,594	223,798,686	1q41	1q41
LU7_AD	3	1	1	223,798,686	223,713,594	1q41	1q41
LU14_AD	7	1	1	223,830,985	197,858,059	1q41	1q31.3
LU14_AD	5	1	1	224,064,402	208,183,231	1q41	1q32.2
LU14_L	3	1	5	224,118,415	180,774,885	1q42.11	5q35.3
LU18_L	4	1	7	224,144,763	63,199,342	1q42.11	7q11.21
LU14_AD	7	1	1	224,284,326	214,141,887	1q42.11	1q32.3
LU14_AD	6	1	1	224,653,811	214,290,718	1q42.12	1q32.3
LU3_AD	3	1	1	224,984,501	225,015,782	1q42.12	1q42.12
LU3_AD	3	1	1	225,015,782	224,984,501	1q42.12	1q42.12

LU12_L	3	1	1	225,072,508	43,323,343	1q42.12	1p34.2
LU8_L	3	1	5	225,074,609	135,073,802	1q42.12	5q31.1
LU18_AD	4	1	1	225,074,913	228,816,120	1q42.12	1q42.13
LU3_L	3	2	1	225,162,492	38,886,269	2q36.1	1p34.3
LU4_AD	3	2	2	225,188,861	225,222,800	2q36.1	2q36.2
LU4_AD	3	2	2	225,222,800	225,188,861	2q36.2	2q36.1
LU4_AD	8	1	16	226,629,540	23,865,633	1q42.12	16p12.2
LU18_L	4	1	17	226,724,201	42,097,138	1q42.12	17q21.31
LU20_AD	3	1	19	226,726,942	20,071,545	1q42.12	19p12
LU12_AD	3	1	13	226,803,858	57,545,478	1q42.12	13q21.1
LU8_L	3	1	1	226,863,523	249,175,506	1q42.12	1q44
LU3_AD	5	2	2	226,959,959	226,990,052	2q36.3	2q36.3
LU4_L	3	2	3	226,972,848	121,070,104	2q36.3	3q13.33
LU3_AD	5	2	2	226,990,052	226,959,959	2q36.3	2q36.3
LU4_L	7	1	10	227,305,832	85,937,655	1q42.13	10q23.1
LU4_AD	4	1	10	227,307,647	85,935,860	1q42.13	10q23.1
LU21_AD	3	1	24	227,714,506	20,578,732	1q42.13	Yq11.222
LU4_AD	5	1	23	227,867,948	50,074,093	1q42.13	Xp11.22
LU4_L	4	1	1	227,868,163	113,366,841	1q42.13	1p13.2
LU7_AD	3	1	7	227,869,205	136,950,790	1q42.13	7q33
LU8_L	4	1	3	227,869,968	132,015,159	1q42.13	3q22.1
LU18_AD	4	1	12	227,870,054	68,933,202	1q42.13	12q15
LU3_L	4	1	23	227,872,617	114,773,210	1q42.13	Xq23
LU12_L	3	1	3	227,873,610	132,014,992	1q42.13	3q22.1
LU8_L	3	1	11	228,153,522	50,041,672	1q42.13	11p11.12
LU3_AD	3	1	11	228,153,942	50,042,956	1q42.13	11p11.12
LU20_L	6	1	11	228,153,965	50,040,118	1q42.13	11p11.12
LU15_L	4	1	11	228,155,932	50,039,951	1q42.13	11p11.12
LU4_AD	4	1	11	228,157,113	50,039,561	1q42.13	11p11.12
LU18_AD	4	1	1	228,816,120	225,074,913	1q42.13	1q42.12
LU4_L	4	1	1	229,276,034	150,608,814	1q42.13	1q21.3
LU4_AD	8	1	1	229,276,623	150,608,282	1q42.13	1q21.3
LU12_L	3	1	6	229,316,338	164,761,030	1q42.13	6q27
LU11_AD	3	1	1	230,007,710	230,040,964	1q42.13	1q42.13
LU11_AD	3	1	1	230,040,964	230,007,710	1q42.13	1q42.13
LU4_AD	3	1	1	230,059,676	230,111,525	1q42.13	1q42.13
LU4_AD	3	1	1	230,111,525	230,059,676	1q42.13	1q42.13
LU3_L	3	1	1	230,176,101	230,207,192	1q42.13	1q42.13
LU3_L	3	1	1	230,207,192	230,176,101	1q42.13	1q42.13
LU11_AD	5	2	19	231,437,891	42,014,390	2q37.1	19q13.2
LU8_L	3	2	19	231,438,156	42,012,220	2q37.1	19q13.2
LU12_L	3	2	2	231,753,356	231,830,496	2q37.1	2q37.1
LU12_L	3	2	2	231,830,496	231,753,356	2q37.1	2q37.1
LU8_L	4	2	23	232,271,009	92,693,562	2q37.1	Xq21.32

LU3_AD	3	2	11	232,271,203	67,614,481	2q37.1	11q13.2
LU3_L	3	1	8	232,337,276	111,890,730	1q42.2	8q23.2
LU8_AD	3	1	5	232,366,778	107,888,882	1q42.2	5q21.3
LU20_AD	4	1	2	233,970,940	277,906	1q42.2	2p25.3
LU3_L	3	1	1	234,474,894	234,505,711	1q42.2	1q42.2
LU3_L	3	1	1	234,505,711	234,474,894	1q42.2	1q42.2
LU12_L	3	1	1	234,604,197	234,644,100	1q42.2	1q42.2
LU12_L	3	1	1	234,644,100	234,604,197	1q42.2	1q42.2
LU18_L	3	1	5	235,304,418	116,635,892	1q42.3	5q23.1
LU4_AD	5	2	7	237,095,100	23,517,890	2q37.2	7p15.3
LU4_AD	13	2	7	237,119,855	19,320,559	2q37.2	7p21.1
LU4_AD	5	1	1	237,302,658	237,333,453	1q43	1q43
LU4_AD	5	1	1	237,333,453	237,302,658	1q43	1q43
LU18_AD	4	1	1	237,410,992	237,446,913	1q43	1q43
LU18_AD	4	1	1	237,446,913	237,410,992	1q43	1q43
LU8_L	3	1	9	238,104,233	5,096,353	1q43	9p24.1
LU20_AD	4	1	1	238,352,187	238,684,611	1q43	1q43
LU20_AD	4	1	1	238,684,611	238,352,187	1q43	1q43
LU18_AD	3	2	5	239,393,785	3,323,691	2q37.3	5p15.33
LU15_L	6	2	2	240,259,532	240,294,177	2q37.3	2q37.3
LU15_L	6	2	2	240,294,177	240,259,532	2q37.3	2q37.3
LU3_AD	3	1	1	240,824,803	240,866,502	1q43	1q43
LU3_AD	3	1	1	240,866,502	240,824,803	1q43	1q43
LU3_L	3	1	1	241,191,967	241,233,157	1q43	1q43
LU3_L	3	1	1	241,233,157	241,191,967	1q43	1q43
LU16_L	5	2	14	241,322,019	106,323,172	2q37.3	14q32.33
LU3_AD	5	2	14	241,328,291	106,324,020	2q37.3	14q32.33
LU18_L	3	2	2	241,521,431	241,552,885	2q37.3	2q37.3
LU18_L	3	2	2	241,552,885	241,521,431	2q37.3	2q37.3
LU3_L	3	1	7	242,482,271	61,818,197	1q43	7q11.21
LU16_L	3	1	16	242,482,656	33,040,450	1q43	16p11.2
LU3_AD	3	1	6	242,621,779	49,470,742	1q43	6p12.3
LU7_L	4	2	2	242,690,649	192,577,108	2q37.3	2q32.3
LU6_L	3	2	4	243,152,897	119,596,773	2q37.3	4q26
LU7_L	7	2	12	243,153,672	60,789,225	2q37.3	12q14.1
LU4_AD	4	2	19	243,153,708	56,147,660	2q37.3	19q13.42
LU6_AD	3	2	4	243,154,236	119,597,340	2q37.3	4q26
LU14_AD	3	1	25	247,134,720	829,024	1q44	25
LU12_AD	3	1	8	247,284,392	11,775,157	1q44	8p23.1
LU5_AD	5	1	8	247,285,957	12,574,674	1q44	8p23.1
LU4_AD	3	1	6	247,872,399	2,307,055	1q44	6p25.2
LU7_L	4	1	12	248,061,847	68,934,022	1q44	12q15
LU18_AD	4	1	12	248,067,887	68,933,000	1q44	12q15
LU4_AD	3	1	1	248,726,497	248,756,482	1q44	1q44

LU4_AD	3	1	1	248,756,482	248,726,497	1q44	1q44
LU8_L	3	1	1	249,175,506	226,863,523	1q44	1q42.12

Gene A	Gene B
no_gene	SH3GL2
no_gene	no_gene
FAM126A	TMEM9B
LMX1B	RET
EPRS	RAB3GAP2
VGLL3	no_gene
VGLL3	no_gene
GABRA4	TTC28
GABRA4	TTC28
PARK2	PACRG
PARK2	PACRG
no_gene	ELMO1
no_gene	SH3GL2
PTPRD	no_gene
no_gene	C10orf68
MEIS2	no_gene
no_gene	CHRNA7
DOCK8	no_gene
DOCK8	no_gene
ZDHHC11	SP4
ZDHHC11	SP4
GNG13	TSHZ2
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FLJ35024	LOC284757
KIAA0020	no_gene
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SDK1	no_gene
SDK1	no_gene
ADCY2	DNAH5
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PTPRD	no_gene
SEMA5A	CDH10
SEMA5A	CDH10
CTNND2	no_gene
CTNND2	no_gene
no_gene	ELMO1
MACROD2	MACROD2
MACROD2	MACROD2

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RSG1	AMPD2
RSG1	AMPD2
no_gene	SH3GL2
HDAC9	PLCB1
HDAC9	PLCB1
SP4	DNAH11
ZBTB40	no_gene
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FAM126A	TMEM9B
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no_gene	C10orf68
BRE	SLC5A11
BRE	SLC5A11
ALK	EML4
ALK	EML4
LCLAT1	LCLAT1
LCLAT1	LCLAT1
DPY19L2P1	RPSAP52
SCUBE3	PARK2
ELMO1	no_gene
ELMO1	no_gene
MEIS2	no_gene
RMDN2	EML4
CNTNAP3	no_gene
CNTNAP3	no_gene
SLC8A1	SLC8A1
SLC8A1	SLC8A1
C7orf10	no_gene
C7orf10	no_gene
EML4	no_gene
EML4	no_gene
EML4	no_gene
ST3GAL3	ST3GAL3
ST3GAL3	ST3GAL3
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no_gene	ELMO1
no_gene	FAM19A2
C12orf54	SLC39A6
CCNT1	MYL6

LIMA1	MYL6
LIMA1	MYL6
RAB3C	ZSWIM6
RAB3C	ZSWIM6
DAB1	AHRR
DAB1	AHRR
PDE4D	no_gene
FAM19A2	XPOT
FAM19A2	XPOT
FAM19A2	MTERFD3
FAM19A2	LOC100507250
FAM19A2	LOC100507250
SRGAP1	ACSS3
SRGAP1	ACSS3
no_gene	ABL2
no_gene	ABL2
SRSF11	PXDNL
no_gene	IFT88
ACSS3	GPHN
LPHN2	SLC44A3
USP10	CRISPLD2
USP10	CRISPLD2
no_gene	SERPINA12
no_gene	SERPINA12
WDR25	WDR25
WDR25	WDR25
DPY19L2P2	RPSAP52
IL18	BCL2
IL18	BCL2
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LMX1B	RET
RNF145	TENM2
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NME7	CRB1
NME7	CRB1
RABGAP1L	no_gene
RABGAP1L	no_gene
no_gene	RBFOX1
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PLXNA2	TTC28

EPRS	RAB3GAP2
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ZNF718	no_gene
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ZNF718	ZNF99
ROCK1P1	PDE4DIP
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OR4F21	FAM138E
ZNF718	ZNF519
CBWD1	no_gene
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CBWD1	CBWD3
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no_gene	ELMO1
LOC653486	TRABD2B
LOC653486	TRABD2B
HBZ	no_gene
HBZ	KCNIP1
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FAM20C	no_gene
IQSEC3	no_gene
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FAM150B	no_gene
CHL1	CHL1
CHL1	CHL1
CHL1	CHL1
CHL1	CHL1
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AHRR	DAB1
AHRR	DAB1
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LOC442497	no_gene
CHL1	CHL1

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CEP72	no_gene
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DIP2C	DIP2C

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DIP2C	DIP2C
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ZDHHC11	PTPRR
ZDHHC11	no_gene
FAM41C	no_gene
ZDHHC11	no_gene
GNG13	no_gene
ZDHHC11	BRD9
BRD9	TRIP13
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BRD9	MEIS2
BRD9	LOC145845
SAMD11	NCAM1
SAMD11	NCAM1
BRD9	CCT2
BRD9	CCT2
BRD9	ZDHHC11
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SLC12A7	YEATS4
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SLC12A7	LOC728613
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CLPTM1L	TPPP
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ADARB2-AS1	ADARB2
SDHAP3	VPS8
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CRAMP1L	no_gene
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ADIPOR2	C2orf61
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IRX4	no_gene
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WHSC1	SLC2A13
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PRKCZ	NFAT5
PRKCZ	NFAT5
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GMDS	GMDS
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SNX8	MAD1L1
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C11orf21	no_gene
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BRAT1	no_gene
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IQCE	no_gene
IQCE	no_gene
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KCNQ1	KCNQ1
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CNTN4	CNTN4
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AMZ1	no_gene
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CNTN4	CNTN4
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ARSF	no_gene
CSMD1	no_gene
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CARD11	LOC729852
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CSMD1	no_gene
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MRGPRE	OR2AG2
MRGPRE	OR2AG2
MRGPRE	OR6A2
MRGPRE	OR6A2
OR1F2P	no_gene

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RFX3	RFX3
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SDK1	RNF216
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EFCAB4B	no_gene
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CSMD1	HOXA3
CSMD1	HOXA3
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C6orf201	no_gene
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OR52K1	CDH18
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FOXK1	RASSF3
FOXK1	RASSF3
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ITPR1	ITPR1
no_gene	PTPRR
no_gene	SRGAP1

CDYL	CDYL
CDYL	CDYL
ITPR1	ITPR1
SLC23A2	CDS2
SLC23A2	CDS2
ITPR1	ITPR1
SLC23A2	NA
SLC23A2	NA
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MMD2	no_gene
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MMP26	no_gene
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AKR1C3	no_gene
JAK2	no_gene
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CDS2	SLC23A2
CDS2	SLC23A2
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C18orf42	no_gene
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PROKR2	PDE10A
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EPB41L3	no_gene
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OR52B6	no_gene
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RNF216	no_gene
RNF216	SDK1
NRTN	RC3H2
OR52E4	no_gene
OR52E4	no_gene
no_gene	OR10A4
NLGN4X	NLGN4Y
CCZ1	NXPH1
no_gene	PKM
no_gene	FAM86B3P
L3MBTL4	L3MBTL4
OR56A5	no_gene
OR56A5	PLEKHA7

OR56A5	PLEKHA7
WSCD1	WSCD1
L3MBTL4	L3MBTL4
NLGN4X	NLGN4Y
WSCD1	WSCD1
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EIF2AK1	PKD1L1
EIF2AK1	PKD1L1
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TSPY2	no_gene
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F13A1	F13A1
RPL22	LOC729970
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FLJ33360	NA
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TRIM3	no_gene
UBE2QL1	CT49
TIMM10B	no_gene
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no_gene	LINC00299
DCHS1	DISP2
GVINP1	no_gene
GVINP1	no_gene
ALOX12P2	no_gene
OR2AG2	no_gene
OR2AG2	no_gene
OR2AG2	MRGPRES
OR2AG2	MRGPRES
OR6A2	MRGPRES
OR6A2	MRGPRES

no_gene	OR56A5
no_gene	GTF2H1
CCZ1B	NXPH1
CCZ1B	NXPH1
CCZ1B	MAGI2-AS3
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LINC00487	no_gene
OR10A4	no_gene
no_gene	CT60
no_gene	TBC1D15
no_gene	LINC00487
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no_gene	TBC1D15
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no_gene	BLK
RBFOX1	no_gene
RBFOX1	no_gene
C1GALT1	C1GALT1
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C1GALT1	C1GALT1
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no_gene	no_gene
GRM7	GRM7
DEFB107B	no_gene
RBFOX1	RBFOX1
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GRM7	GRM7
RBFOX1	RBFOX1
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ADCY2	CT49
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RBFOX1	RBFOX1
RBFOX1	RBFOX1
LOC729852	LOC729852
LOC729852	SDK1
LOC729852	CARD11
LOC729852	LOC729852
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BLOC1S5-TXN1	no_gene
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FAM86B3P	no_gene
GLCCI1	no_gene
GLCCI1	no_gene
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LINC00299	no_gene
PTPRM	no_gene
PTPRD	no_gene
PTPRD	no_gene
no_gene	PTPRM
no_gene	TTY2B
CLDN23	TNFRSF10B
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NXPH1	NXPH1
TMEM114	no_gene
NXPH1	NXPH1
TTY11	PLA2G4A
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NXPH1	CCZ1
NXPH1	CCZ1B
NXPH1	CCZ1B
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PLCB1	HDAC9
PLCB1	HDAC9
ST5	SP4
RIMKLB	no_gene
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TMEM9B	FAM126A
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USP7	no_gene
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SRGAP3	SRGAP3
MBOAT2	no_gene
SRGAP3	SRGAP3
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no_gene	CPA4
RBM1A3P	RBM1A3P
RBM1A3P	no_gene
DENND5A	DLC1
DENND5A	DLC1
no_gene	INTS10
no_gene	HTRA4
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H6PD	SPSB1
H6PD	SPSB1
SEMA5A	no_gene
SEMA5A	no_gene
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PLCB4	no_gene
PLCB4	no_gene
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SPSB1	H6PD
SPSB1	H6PD
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DEFB131	no_gene
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TBL1X	TBL1X
LAMP5	no_gene
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PAK7	no_gene
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TBL1X	TBL1X
TTY2B	no_gene
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MIR3648	LINC00648
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TEKT4P2	no_gene
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TAF1B	no_gene
GRIN2A	GRIN2A
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GRIN2A	GRIN2A
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GRIN2A	GRIN2A
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CMBL	MTUS1
CMBL	MTUS1
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MKKS	no_gene
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ATP2B2	ATP2B2
ATP2B2	ATP2B2
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RNF141	no_gene
RNF141	SERGEF
RNF141	SERGEF
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ANKRD33B	no_gene
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XKR6	no_gene
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TEKT5	no_gene
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NDUFA4	DACH2
CTNND2	no_gene
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CTNND2	NA
CTNND2	NA
SHISA6	no_gene
SHISA6	no_gene
CTNND2	CT60
CTNND2	CT60
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CTNND2	no_gene
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BLK	no_gene
BLK	no_gene
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no_gene	SRC
THSD7A	THSD7A
GALNT18	GALNT18
THSD7A	THSD7A
GALNT18	GALNT18
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ZNF627	PPP2R1A
ADTRP	ADTRP
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ADTRP	ADTRP
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TXNDC11	no_gene
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FAM66D	FAM86HP
USP17L2	FAM86B1
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FAM86B1	USP17L2
SYN2	SYN2
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SYN2	SYN2
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LOC10050699	no_gene
LOC10050699	MTMR7
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LOC10050699	no_gene
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VPS13D	RBL1
LOC729732	NA
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no_gene	HERPUD2
LONRF1	ZNF124
LONRF1	no_gene
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SCIN	no_gene
CT49	ADCY2
CT49	no_gene
SCIN	no_gene
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SCIN	no_gene
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SCIN	no_gene
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TEAD1	TEAD1
LURAP1L	no_gene
TEAD1	TEAD1
PRAMEF12	CD48
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DLC1	DENND5A
DLC1	DENND5A
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DLC1	PLEKHA7
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PRAMEF9	no_gene
BTBD10	no_gene
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LDLRAD4	LDLRAD4
LDLRAD4	LDLRAD4
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SIRT5	no_gene
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DNAH5	ADCY2
SEL1L2	no_gene
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SGCZ	PCM1
COX10	CAST
ZNF519	ZNF718
MACROD2	no_gene
CDRT15	CDRT15L2
no_gene	no_gene
no_gene	RNU6-76
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LSM3	no_gene
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SGCZ	no_gene
no_gene	TERF1
no_gene	EFCAB4B
no_gene	no_gene
CXADRP3	CXADR
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SGCZ	no_gene
ATF7IP	no_gene
ANKH	no_gene
ANKH	no_gene
DGKB	no_gene
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PDE3B	PPM1F
no_gene	no_gene
no_gene	OR52B6
ABCC6P2	no_gene
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no_gene	no_gene
LOC441009	CPEB2
POTED	POTEG
MIR3180-1	PDXDC2P
MACROD2	MACROD2
MACROD2	MACROD2
MIR3180-1	PDXDC2P
CPEB2	LOC441009
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SGCZ	ADAM18
no_gene	DGKB
KAZN	KAZN
KAZN	KAZN

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TVP23C-CDRT4	TVP23C-CDRT4
TVP23C-CDRT4	TVP23C-CDRT4
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no_gene	no_gene
no_gene	SP4
no_gene	OR2AG2
no_gene	OR2AG2
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FBXL7	no_gene
MEIS3P1	IL6ST
no_gene	no_gene
no_gene	NDUFS6
no_gene	no_gene
CYP4F3	no_gene
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MACROD2	MACROD2
MACROD2	MACROD2
FBXL7	CT60
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FBXL7	no_gene
MACROD2	no_gene
no_gene	FBXL7
CYP4F2	no_gene
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no_gene	IQCE
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no_gene	CYP4F2
no_gene	CYP4F3
no_gene	no_gene
SOX6	SOX6
no_gene	POLR2C
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SOX6	SOX6
11-Mar	C1QTNF3-AMACR

11-Mar	no_gene
11-Mar	no_gene
11-Mar	CSMD1
11-Mar	CSMD1
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C9orf92	C9orf92
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C9orf92	C9orf92
no_gene	SMU1
ISPD	PLEKHA7
no_gene	CNBD1
POTEH	POTEM
POTEH	POTEM
ABCC6	no_gene
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no_gene	NAV2
RFTN1	RFTN1
ISPD	no_gene
ISPD	no_gene
ATXN1	FBXO9
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RFTN1	RFTN1
FAM134B	no_gene
FAM134B	no_gene
FAM134B	FAM134B
RFTN1	RFTN1
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FAM134B	FAM134B
RFTN1	RFTN1
RSG1	no_gene
FBXO42	GNAI3
FBXO42	GNAI3
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ANKMY2	NPSR1-AS1
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NLGN4Y	NLGN4X
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PLEKHA7	no_gene
PLEKHA7	no_gene
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NLGN4Y	NLGN4X
PLEKHA7	KCNMB4
PLEKHA7	KCNMB4
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AGR3	no_gene
EFHA2	no_gene
AGR3	no_gene
AGR3	MGAT4C
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NBPF1	no_gene
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NBPF1	RNF123
no_gene	SIRT5
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PLEKHA7	DLC1
PLEKHA7	ISPD
PLEKHA7	OR56A5
PLEKHA7	OR56A5
ESPNP	CELSR2
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CUBN	no_gene
no_gene	FLJ39739
no_gene	MACROD2
VPS37A	no_gene
no_gene	HDAC9
MTMR7	LOC100506990
XYLT1	XYLT1
no_gene	FAM182B
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XYLT1	XYLT1
PCSK2	PCSK2
PCSK2	PCSK2
PCSK2	PCSK2

PCSK2	PCSK2
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no_gene	no_gene
PCSK2	no_gene
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TBC1D5	TBC1D5
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TBC1D5	TBC1D5
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FAM8A1	HLA-DRB6
FAM8A1	HLA-DRB6
MTUS1	CMBL
MTUS1	CMBL
SH3GL2	no_gene
SH3GL2	no_gene
SH3GL2	no_gene
no_gene	NELL1
no_gene	NELL1
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MTUS1	no_gene
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PCM1	SGCZ
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SERGEF	RNF141
SERGEF	RNF141
SERGEF	DNAH11
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LOC494141	no_gene
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EVPLL	no_gene
HDAC9	no_gene
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HDAC9	HDAC9
HDAC9	HDAC9
GTF2H1	no_gene
LDHA	no_gene
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HDAC9	HDAC9
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NOMO2	no_gene
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PIK3C2G	TPH2
ABCC6P1	no_gene
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HDAC9	HDAC9
ABCC6P1	no_gene
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PRODH	SGCD
CXADR	CXADRP3
HDAC9	HDAC9
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HDAC9	HDAC9
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TWIST1	C7orf10
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FERD3L	no_gene
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SYT17	C16orf62
no_gene	no_gene
no_gene	PDZD2
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CSGALNACT1	TENM4
CSGALNACT1	TENM4
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PLEKHA5	ANO6
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no_gene	ARSF
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OR11H12	no_gene
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POTEG	POTED
C16orf62	SYT17
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NAV2	LOC100507377
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FAM41AY2	no_gene
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NAV2	NAV2
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SLC24A3	no_gene
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INTS10	no_gene
CDH18	no_gene
CDH18	BANK1
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ANKRD26P3	ANKRD26P3
CDH18	OR52K1
CDH18	OR52K1
ANKRD26P3	ANKRD26P3
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no_gene	AMIGO2
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TXNRD2	no_gene
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POTEM	POTEH
POTEM	POTEH
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SLC18A1	no_gene
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ZNF93	no_gene
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WDR35	no_gene
WDR35	IGSF23
PLXDC2	PLXDC2
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ZNF90	no_gene
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PLXDC2	PLXDC2
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PLXDC2	PLXDC2
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CDRT15L2	CDRT15
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ZMYM2	no_gene
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PDE3A	no_gene
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VWA5B1	no_gene
ACSM1	ZPBP
PDE3A	LINC00265
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PDE3A	PDE3A
CDKAL1	CDKAL1
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ZNF626	no_gene
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SLCO1C1	no_gene
TEP1	TEP1
NBEAP1	no_gene
NBEAP1	SLC12A7
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TMEM241	no_gene
NELL1	no_gene
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NF1P2	no_gene
ZNF85	ZNF681
CT60	FBXL7
CT60	CTNND2
CT60	CTNND2
NELL1	NELL1
MAP2K3	no_gene
CT60	no_gene
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CT60	no_gene
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IFT88	no_gene
IL17D	no_gene
IL17D	no_gene
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KCNJ12	no_gene
SLCO1B1	SLCO1B1
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SLCO1B1	SLCO1B1
no_gene	LOC401074
SP4	ST5
SP4	ZDHHC11
SP4	no_gene
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SP4	no_gene

GUSBP1	no_gene
SLCO1A2	CCDC91
SP4	DNAH11
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GUSBP1	no_gene
DNAH11	SP4
DNAH11	SP4
DNAH11	LCA5
ZNF493	no_gene
ZNF493	no_gene
DNAH11	SERGEF
ZNF493	ZNF98
DNAH11	SERGEF
DNAH11	no_gene
METTL9	no_gene
METTL9	no_gene
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NBPF3	no_gene
NBPF3	NOTCH2
NBPF3	NOTCH2
ZNF385D	RBMS3
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CDH12	NA
DNAH11	no_gene
DNAH11	no_gene
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MTAP	no_gene
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MIPEPP3	no_gene
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LINC00340	LINC00340
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DNAH11	no_gene
LINC00340	LINC00340
CDKN2A	HIF1A

CDH12	no_gene
CDKN2B-AS1	FAM153A
CDKN2B-AS1	FAM153A
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CDH12	no_gene
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PPM1F	PDE3B
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PPP3CC	ENTPD4
PPP3CC	ENTPD4
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OR4N4	no_gene
SLC17A6	no_gene
ST8SIA1	KCNQ5
no_gene	SLC17A6
no_gene	STEAP1B
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STEAP1B	no_gene
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ZNF98	ZNF493
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no_gene	ABHD12
NCAM2	NCAM2
GAS2	TPH2
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LOC10087306	LOC100873065
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no_gene	ANO3

NCAM2	NCAM2
GOLGA6L1	MARS
GOLGA6L1	MARS
LOC10087306	LOC100873065
GOLGA6L1	no_gene
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GOLGA6L1	MARS
GOLGA6L1	CEP72
ETNK1	no_gene
no_gene	ABCC6P1
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no_gene	ARHGEF25
no_gene	C1QTNF3-AMACR
no_gene	no_gene
ZBTB40	NFATC3
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SNORD93	no_gene
TNFRSF10B	CLDN23
CYFIP1	CLPTM1L
CYFIP1	CLPTM1L
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ZNF99	no_gene
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ZNF99	ZNF254
ZNF99	ZNF718
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no_gene	C11orf21
CYFIP1	no_gene
CYFIP1	no_gene
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FAM126A	no_gene
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SSTR4	no_gene
NIPA2	no_gene
FAM126A	ABCA13
FAM126A	ABCA13
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KLHL7	SLC12A6
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WHAMMP3	SRGAP1
WHAMMP3	SRGAP1
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IGLL5	IGLL3P
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MIR548AJ2	MIR548AJ2
ENTPD4	PPP3CC
ENTPD4	PPP3CC
MIR548AJ2	MIR548AJ2
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HERC2P7	no_gene
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IGF2BP3	no_gene
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IGF2BP3	GRIP1
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IGF2BP3	TTC17
IGF2BP3	TTC17
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GOLGA8S	GOLGA8A
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RBMY1A1	RBMY1F
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FAM221A	no_gene

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OTUD1	no_gene
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FAM221A	no_gene
ELAVL2	ELAVL2
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STK31	no_gene
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ELAVL2	ELAVL2
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TAF4B	no_gene
PRKCB	no_gene
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ZNF681	ZNF85
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GGTLC1	LOC100272216
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PRKCB	PRKCB
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PRKCB	PRKCB
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DCDC2	DCDC2
SLC2A11	no_gene
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PRY	no_gene
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ZNF254	ZNF99
DCDC2	DCDC2

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KIAA1217	no_gene
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DHRS4L2	CCBL1
RBM1F	RBM1A1
AQP4-AS1	AZGP1
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CDH10	SEMA5A
CDH10	SEMA5A
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RBM1F	no_gene
SYNDIG1	SYNDIG1
CABIN1	no_gene
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LUZP2	LUZP2
RBM1F	RBM1A3P
SYNDIG1	SYNDIG1
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no_gene	MPP6
LUZP2	LUZP2
MPP6	no_gene
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OSBPL3	no_gene
OSBPL3	no_gene
SLC5A11	no_gene
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SLC5A11	BRE
SLC5A11	DTNB
SLC5A11	BRE

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OSBPL3	no_gene
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ARHGAP17	no_gene
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POLA1	POLA1
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POLA1	POLA1
GGT1	POM121L10P
LUZP2	no_gene
DOCK5	no_gene
DOCK5	no_gene
POM121L10P	GGT1
ADCY3	ADCY3
ADCY3	ADCY3
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TPTE2P6	no_gene
TPTE2P6	no_gene
CYCS	no_gene
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ABHD12	no_gene
ENKUR	XPOT
ENKUR	XPOT
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IGLL3P	IGLL5
LRP5L	PHF10
FAM182B	no_gene
FAM182B	no_gene
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FAM182B	no_gene
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GPR158	GPR158
DTNB	no_gene
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DTNB	SLC5A11
DTNB	ATL2
GPR158	GPR158
DTNB	no_gene
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MYO18B	no_gene

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RASSF8	no_gene
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SNX10	LOC441204
LOC441204	SNX10
LOC441204	no_gene
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GAD2	GAD2
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ANO3	no_gene
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GABRB3	no_gene
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HOXA3	CSMD1
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C12orf71	no_gene
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EPHX2	no_gene
TCF23	SLC5A6
SLC5A6	TCF23
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CCDC25	no_gene
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KIAA0556	KIAA0556
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KIAA0556	KIAA0556
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GSG1L	GSG1L
GSG1L	GSG1L
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JAZF1	no_gene
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JAZF1	JAZF1-AS1
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JAZF1-AS1	JAZF1
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LINGO2	LINGO2
LINGO2	LINGO2

BRE	SLC5A11
BRE	SLC5A11
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MPP7	no_gene
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TTC28	PLXNA2
CCDC91	SLCO1A2
INTS9	RRM2B
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CREB5	no_gene
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LINGO2	no_gene
LINGO2	no_gene
TTC28	SLC25A21
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IL1RAPL1	IL1RAPL1
IL1RAPL1	IL1RAPL1
PPP1CB	FAM179A
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LOC646278	no_gene
TTC28	no_gene
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IL1RAPL1	IL1RAPL1

IL1RAPL1	IL1RAPL1
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EPB41	TENM4
FAM179A	PPP1CB
SLC25A52	RIC8B
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CLIP4	no_gene
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OR2H1	no_gene
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FAR2	no_gene
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NF1	RABEP1
MTUS2	MTUS2
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LOC646762	no_gene
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RBMS3	ZNF385D
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HLA-H	HLA-C
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MTUS2	MTUS2
MTUS2	MTUS2
DEFB119	DEFB121
GAREM	HNRNPA1L2
DEFB121	DEFB119
MTUS2	MTUS2
MTUS2	MTUS2
MTUS2	PSRC1
MTUS2	PSRC1
ALK	no_gene
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PRKD1	PRKD1
PRKD1	PRKD1
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LRRC37B	ARL17B
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MPPED2	no_gene
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IPO8	TMBIM6
IPO8	HOXC4
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INMT-FAM188B	no_gene
DDR1	VAR2
LCLAT1	LCLAT1
LCLAT1	LCLAT1
INMT-FAM188B	INMT-FAM188B
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VAR2	DDR1
INMT-FAM188B	INMT-FAM188B
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ADCYAP1R1	no_gene
SCFD1	SCFD1
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SCFD1	SCFD1
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CDH6	CDH6

MYO1D	ASIC2
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CDH6	CDH6
HLA-C	HLA-H
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DCDC1	DCDC1
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ASXL3	CRY1
HLA-B	DHFR
DCDC1	DCDC1
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MICA	no_gene
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DROSHA	TRAF5
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NOL4	GLS2
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AP4S1	no_gene
NOL4	no_gene
NOL4	SMARCC2
STT3B	STT3B
ZEB1	TCHHL1
STT3B	STT3B
STT3B	OSBPL10
OSBPL10	STT3B
NRG1	NRG1
ASIC2	ASIC2
NRG1	NRG1
ASIC2	ASIC2
PDZD2	no_gene
B3GALTL	MYO16
ASIC2	ASIC2
OTUD7A	no_gene
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ZNF267	no_gene

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DTNA	RBMS2
DTNA	RBMS2
ASIC2	MYO1D
NUBPL	no_gene
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NUBPL	NUBPL
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PDE1C	no_gene
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CHRNA7	ULK4P3
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SLC5A1	no_gene
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HLA-DRB6	FAM8A1
HLA-DRB6	FAM8A1
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RFPL2	no_gene
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ULK4P3	CHRNA7
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C10orf68	C10orf68
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C10orf68	C10orf68
TMEM132E	no_gene
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AKAP6	AKAP6
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AKAP6	AKAP6
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no_gene	APCDD1L-AS1

C10orf68	IL22
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C10orf68	no_gene
HLA-DPA1	HLA-DPB2
DNAJA1	GLI3
no_gene	PLD5
HLA-DPB1	HLA-DPB2
SMU1	no_gene
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C10orf68	no_gene
HLA-DPB2	HLA-DPA1
HLA-DPB2	HLA-DPB1
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FMN1	AOAH
HUNK	HUNK
PDS5B	no_gene
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FMN1	no_gene
FMN1	no_gene
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AQP7	ANKRD20A8P
AQP7	ANKRD20A3
AQP7	ANKRD20A3
RNU6-76	no_gene
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ANKRD18B	no_gene
TMCO5B	no_gene
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SLC39A6	C12orf54
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PRSS3	no_gene
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UBAP2	no_gene
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LARGE	LGALS2
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C1QTNF3-AM	no_gene
C1QTNF3-AM	11-Mar
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C17orf66	CCL5
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CCL5	C17orf66
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FHOD3	FHOD3
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FHOD3	FHOD3
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NPSR1-AS1	no_gene
NPSR1-AS1	PGM5P2
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CCL4	no_gene
CCL4	no_gene
PHF20	no_gene
DNAI1	no_gene
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KIAA1328	KIAA1328
NPSR1-AS1	ANKMY2
KATNBL1	no_gene
KIAA1328	KIAA1328
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SLC12A6	KLHL7
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GOLGA8A	GOLGA8S
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NPSR1-AS1	NPSR1-AS1
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KIAA0355	no_gene
KIAA0355	no_gene
NPSR1-AS1	NPSR1-AS1
NPSR1-AS1	no_gene
RAI14	no_gene
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TMEM50B	UFM1
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KIAA1045	CDH4
KIAA1045	CDH4
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PRLR	PRLR
DPY19L2P1	no_gene
DPY19L2P1	no_gene
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DPY19L2P1	TBX20
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TBX20	DPY19L2P1
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AQR	MEIS2
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TBX20	no_gene
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NDRG3	no_gene
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UNC13B	UNC13B
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UNC13B	UNC13B
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ATP8B5P	no_gene
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HPN	no_gene
SAMHD1	no_gene
NBEA	NBEA
RBL1	VPS13D
NBEA	NBEA
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HERPUD2	no_gene
SPEF2	no_gene
ARPP21	ARPP21
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ARPP21	ARPP21
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IL7R	no_gene
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7-Sep	no_gene
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ATPBD4-AS1	no_gene
ATPBD4-AS1	no_gene
ATPBD4-AS1	no_gene
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UGT3A1	TXNL4A
ATPBD4-AS1	no_gene
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SRC	no_gene
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RUNX1	RUNX1
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RUNX1	RUNX1
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EPPD1	ATF1
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CTNBL1	no_gene
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STAC	no_gene
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STAC	STAC
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VSTM2L	STAU1
VSTM2L	STAU1
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AOAH	FMN1
PTCSC3	MBIP
KCNU1	no_gene
TGM2	no_gene
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MBIP	PTCSC3
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KIAA1755	no_gene
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C15orf41	no_gene
NIPBL	PLCXD3
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SFTA3	no_gene
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SLC25A21	TTC28
LOC145845	BRD9
MEIS2	BRD9
MEIS2	no_gene
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MEIS2	no_gene
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ELMO1	no_gene
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WDR70	IL1RAPL2
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WDR70	BCO2
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WDR70	no_gene
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C1QTNF6	ENTHD1
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RAB11FIP1	FAM110B
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GDNF	no_gene
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LGALS2	LARGE
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POSTN	no_gene
ZNF607	ZNF573
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ZNF25	HSD11B1

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ZNF25	no_gene
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IGFBPL1	no_gene
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AMPH	AMPH
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AMPH	AMPH
ATL2	ATL2
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BTBD9	ARHGEF7
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ANKRD18A	no_gene
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AMPH	ZNF324B
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VPS41	no_gene
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UFM1	TMEM50B
ADAM9	no_gene
RICTOR	RICTOR
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CPNE8	no_gene
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KLHL5	no_gene
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ADAM32	ADAM32
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FYB	no_gene
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ADAM32	ADAM32
LINC00639	ZFP41
SPATA31A2	no_gene
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RPSA	no_gene
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ADAM18	SGCZ
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LINC00265	PDE3A
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MGAT3	CACNA1I
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CACNA1I	MGAT3
CDK13	no_gene

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C7orf10	no_gene
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MYRIP	no_gene
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COG6	COG6
SRP14	C11orf75
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SLC2A13	no_gene
SLC2A13	WHSC1
COG6	COG6
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LRRC4C	LRRC4C
SLC2A13	SLC2A13
SLC2A13	SLC2A13
LRRC4C	LRRC4C
SLC2A13	no_gene
RIT2	RIT2
RIT2	RIT2
C7orf10	TWIST1
ZMAT4	no_gene
DISP2	DCHS1
IVD	C7orf10
C7orf10	IVD
TNRC6B	no_gene
BAHD1	no_gene
PTPRT	PTPRT
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PLCXD3	NIPBL
ULK4	no_gene
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TPTE2P5	no_gene
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CASK	no_gene
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ANK1	no_gene
PDZRN4	PDZRN4
PTPRT	LOC100996307
PTPRT	LOC100996307
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CASK	CASK
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INHBA-AS1	no_gene
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MGC21881	no_gene
LOC10050549	no_gene
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GLI3	GLI3
DSCAM	DSCAM
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GLI3	GLI3
TMEM101	no_gene
GLI3	DNAJA1
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GUCA1A	no_gene
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GLI3	no_gene
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IKBKB	no_gene
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DSCAM	no_gene
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ANKRD20A2	NA
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HIVEP3	no_gene
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EML4	RMDN2
GHR	GHR
EML4	no_gene
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VIPR1	VIPR1
EML4	no_gene
EML4	no_gene
EML4	ALK
EML4	ALK
UBR2	UBR2
VIPR1	VIPR1
CHRNA3	no_gene
CHRNA3	no_gene
COX7A2L	no_gene
UBR2	UBR2
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LOC10099630	PTPRT
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LOC10099630	FPGT-TNNI3K
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ANKRD20A3	AQP7P1

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ANKRD20A3	AQP7
ANKRD20A3	AQP7
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HNRNPKP3	no_gene
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UBR1	no_gene
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TTC17	IGF2BP3
TTC17	IGF2BP3
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RET	LMX1B
ANO10	no_gene
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ADAMTS20	NELL2
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SEMG2	no_gene
CRHR1	CRHR1
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CAMK2B	CAMK2B
CAMK2B	no_gene
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ST3GAL3	ST3GAL3
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ARL17B	LRRC37B
ARL17B	LRRC37B
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ZNF222	ZNF223
ZNF223	ZNF222
MMP9	SLC12A5
SLC12A5	MMP9
TMEM117	PDZRN4
CDH22	CDH22
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CDH22	CDH22
KDM6A	no_gene
CAMKMT	WDR49
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SPG11	B2M
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B2M	SPG11
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IGSF23	WDR35
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NELL2	no_gene
SUPT3H	no_gene
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NELL2	ADAMTS20
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TMEM72-AS1	TMEM72-AS1
EFCAB13	EFCAB13
TMEM72-AS1	TMEM72-AS1
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CLPTM1	KCNA7
RUNX2	no_gene
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KIAA1704	NUFIP1
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ANO6	PLEKHA5
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EYA2	no_gene
SEPT7P2	no_gene
ANO6	no_gene
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SOCS5	no_gene
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LINC00842	FAM25B
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C2orf61	ADIPOR2
CYP4Z2P	no_gene
AMIGO2	no_gene
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PHKB	PHKB
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GPR115	no_gene
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STAU1	VSTM2L
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KCNB1	ATP9A
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MDGA2	no_gene
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MAPK4	MAPK4
MAPK4	MAPK4
LINC00648	MIR3648
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TRABD2B	no_gene
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SPINK8	no_gene
ABCA13	ABCA13
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SENP1	TSPAN31
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PFKM	FBXW8
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SLC5A9	SKINTL
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SLC5A9	no_gene
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SLC5A9	no_gene
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C12orf54	FAM19A2
SPATA6	no_gene
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CCNT1	PTPRR
CCNT1	DIP2B
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FAM25B	LINC00842
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WNT1	no_gene
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GLYATL3	PLD5
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TUBA1B	FAM19A2
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KCNA7	CLPTM1
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C1QL4	SRGAP1
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DNAJC22	PPM1H
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CAB39L	CAB39L
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MCRS1	no_gene
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IKZF1	DDC
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C14orf183	LOC100507250
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C10orf53	C10orf53
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DOCK3	DOCK3
C10orf53	no_gene
DIP2B	LIMA1
DIP2B	MON2
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MAP4K5	ATL1
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DIP2B	CCNT1
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ATL1	MAP4K5
SNAR-F	SNAR-I
SNAR-F	SNAR-I
SHANK3	CR2
ATF1	EEPD1
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ATF1	FLJ12825
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FAF1	no_gene
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SCN8A	FLJ12825
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SCN8A	MAGI3
SCN8A	HNRNPA3
SCN8A	no_gene
NRD1	no_gene
DYNAP	no_gene
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FPR3	no_gene
PXDNL	CYP7B1
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PXDNL	PXDNL
SUMO1P1	COPA
PXDNL	PXDNL
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ATP7B	no_gene
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PXDNL	SRSF11
ZFYVE9	IPP
KRT81	KRT82
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PPP2R1A	ZNF627
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FBXO9	ATXN1
FAM156A	no_gene
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ARL15	no_gene
HNRNPA1L2	GAREM
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ST18	ST18
ST18	ST18
KRT8	no_gene
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FAM150A	TRPS1
FAM150A	no_gene
SOAT2	AVIL
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HUWE1	no_gene
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RPGRIP1L	GNAO1
RPGRIP1L	GNAO1
CACNA1D	CACNA1D
CACNA1D	CACNA1D
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MLIP	MLIP
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MLIP	MLIP
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CALCOCO1	no_gene
CACNA2D3	MIR4272
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HOXC4	IPO8
CDC20B	no_gene
FLJ12825	BEST3
FLJ12825	ATF1
FLJ12825	ATF1
FLJ12825	SCN8A
WDR7	WDR7
FLJ12825	SCN8A
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WDR7	WDR7
no_gene	BAZ2A
SKIV2L2	no_gene
CACNA2D3	no_gene
CACNA2D3	ERC2
SSBP3	SSBP3
SSBP3	SSBP3
MC3R	no_gene
PFKFB1	no_gene
EML6	EML6
EML6	EML6
CASS4	CDH4
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no_gene	OR6C65
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ACOT11	no_gene
ACOT11	VPS8
no_gene	DOCK2
SAMD4A	no_gene

SAMD4A	no_gene
IL31RA	IL31RA
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IL6ST	MEIS3P1
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TESPA1	no_gene
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DYX1C1	no_gene
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OR6C76	no_gene
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OR6C68	no_gene
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ERC2	CACNA2D3
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OR2AP1	no_gene
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ITGA7	FAIM2
ITGA7	DNAJC22
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CD63	no_gene
KTN1	no_gene
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ZNF580	no_gene
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GNAO1	RPGRIP1L
GNAO1	RPGRIP1L
WIBG	no_gene
DGKA	BEST3
DGKA	BEST3
DGKA	no_gene
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CDK2	no_gene
RAB5B	DIP2B
SUOX	PIP4K2C
SUOX	PIP4K2C
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IKZF4	no_gene
IKZF4	KIF5A
IKZF4	PIP4K2C
IKZF4	FAM186B
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IKZF4	no_gene
RPS26	no_gene
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MYL6	BEST3
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MYL6B	BEST3
MYL6	LIMA1
MYL6	LOC100287944
MYL6	CCNT1
SMARCC2	NOL4
SMARCC2	RIC8B
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GLS2	NOL4

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BEND6	MRPL30
LYN	IMPAD1
LYN	IMPAD1
RBMS2	DTNA
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ZNF280D	no_gene
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BAZ2A	no_gene
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PRIM2	SAMD12
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C8B	no_gene
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PRIM2	no_gene
POLR2C	no_gene
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NXPH4	METTL1
NXPH4	METTL1
NXPH4	FAM186B
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SHMT2	no_gene
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ZNF543	ZNF460
ARHGAP9	no_gene
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IMPAD1	LYN
IMPAD1	LYN
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MARS	GOLGA6L1
MARS	GOLGA6L1
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RAB3C	no_gene
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KIF5A	FAM186B
KIF5A	IKZF4
PIP4K2C	SUOX
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ARHGEF25	no_gene
SLC26A10	no_gene
LOC255130	no_gene
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TSPAN31	SPATS2
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TSPAN31	SENP1
CDK4	MCRS1
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ZNF211	no_gene
METTL1	NXPH4
METTL1	NXPH4
SLC35F4	no_gene
SLC35F4	no_gene
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AVIL	FAM19A2
AVIL	no_gene
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AVIL	SOAT2
CTDSP2	TRIP13
CTDSP2	TRIP13
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ZNF587	no_gene
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LOC284757	FLJ35024

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PDE4D	PDE4D
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TOX	no_gene
CDH4	ARFGAP1
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MS4A2	no_gene
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CDH4	CASS4
FGGY	FGGY
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CDH4	TAF4
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CDH4	KIAA1045
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FHIT	FHIT
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BCL2	IL18
BCL2	IL18
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MIR548W	MIR548W
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REL	PUS10
REL	CNTNAP5
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CHD7	no_gene
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ARFGAP1	no_gene
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FAM19A2	FAM19A2
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HIF1A	CDKN2A
FAM19A2	no_gene
FAM19A2	TUBA1B
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FAM19A2	no_gene
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USP15	IRAK3
USP15	IRAK3
L1TD1	FGF14
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USP15	no_gene
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PPM1H	LIMA1
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DOCK7	DOCK7
DOCK7	DOCK7
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C10orf107	C10orf107
KCNH5	KCNH5
NKAIN3	NKAIN3
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NKAIN3	NKAIN3
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MTMR8	MTMR8
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MTMR8	MTMR8
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RCOR2	no_gene
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WDPCP	WDPCP
LINC00466	LINC00466
ARID5B	ARID5B
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LINC00466	LINC00466
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WDPCP	WDPCP
ARID5B	ARID5B
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DPY19L2	no_gene
DPY19L2	RPSAP52
DPY19L2	RPSAP52
ZNF680	no_gene
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CEP112	CEP112
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SRGAP1	GPHN
SRGAP1	no_gene
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SRGAP1	C12orf66
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SRGAP1	WHAMMP3
SRGAP1	WHAMMP3
SRGAP1	no_gene
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ADAMTS6	no_gene
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CSNK1G1	SERPINA12
CSNK1G1	SERPINA12
SRGAP1	no_gene
SRGAP1	C1QL4
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ADAMTS9	ADAMTS9
ADAMTS9	ADAMTS9
C12orf66	SRGAP1
C12orf66	SRGAP1
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ADAMTS9	MIR548A2
ADAMTS9	ADAMTS9
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ADAMTS6	no_gene
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SYNE2	SYNE2
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SYNE2	SYNE2
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C12orf56	no_gene
EYS	no_gene
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MIR548A2	ADAMTS9
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XPOT	no_gene
XPOT	no_gene
XPOT	no_gene
XPOT	FAM19A2
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ZNF609	no_gene
XPOT	ENKUR
XPOT	ENKUR
EYS	OPCML
TBK1	no_gene

TBK1	no_gene
CACNG5	no_gene
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RASSF3	FOXK1
RASSF3	FOXK1
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PIF1	FEM1B
GNS	FLJ41278
GNS	FLJ41278
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TBC1D30	no_gene
TBC1D30	no_gene
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FLJ41278	PTPRR
FLJ41278	PTPRR
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HEPH	LOC285626
WIF1	no_gene
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LOC283867	no_gene

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EYS	EYS
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MSRB3	HMGA2
MSRB3	HMGA2
CYP7B1	PXDNL
MSRB3	CPM
MSRB3	CPM
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DNAJC6	DNAJC6
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LINC00174	no_gene
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EYS	EYS
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SLC29A2	no_gene
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SLC25A26	SLC25A26
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RPSAP52	DPY19L2P2
RPSAP52	DPY19L2

RPSAP52	DPY19L2
RPSAP52	DPY19L2P1
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ARSG	no_gene
HMGA2	no_gene
HMGA2	no_gene
HMGA2	MSRB3
HMGA2	MSRB3
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CDH5	ARNT
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LLPH	no_gene
LLPH	no_gene
TMBIM4	TMBIM4
TMBIM4	TMBIM4
C11orf80	COL11A1
IRAK3	USP15
IRAK3	USP15
PC	no_gene
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GRIP1	TPPP
GRIP1	TPPP
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GRIP1	MDM1
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GRIP1	IGF2BP3
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SGIP1	SGIP1
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no_gene	MSRB3
PCDH9	ENTPD1-AS1
TBC1D10C	no_gene
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SGIP1	SGIP1
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OPHN1	no_gene
MIR4272	CACNA2D3
AQP7P1	ANKRD20A8P
AQP7P1	ANKRD20A3
AQP7P1	ANKRD20A3
AQP7P1	ANKRD20A8P
AQP7P1	ANKRD20A3
AQP7P1	ANKRD20A3
AQP7P1	ANKRD20A8P
AQP7P1	ANKRD20A3
AQP7P1	ANKRD20A3
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GPHN	GPHN
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DOC2GP	no_gene
GPHN	SRGAP1
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MAP2K6	MIR5684

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IQCH	IQCH
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FAM27B	no_gene
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STARD8	no_gene
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ANKRD20A1	no_gene
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DYRK2	no_gene
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FAM19A1	FAM19A1
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NFATC3	ZBTB40
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LOC550112	GNRHR
FEM1B	PIF1
FEM1B	no_gene
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no_gene	SLC2A13
RAD51B	RAD51B
GNRHR	LOC550112
IL26	no_gene
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RAD51B	RAD51B
IL22	C10orf68
IL22	C10orf68
IL22	no_gene
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MDM1	GRIP1
MDM1	GRIP1
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RAD51B	RAD51B
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RAP1B	no_gene
PREX2	no_gene
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LOC10050725	FAM19A2
NUP107	no_gene
LOC10050725	C14orf183
NUP107	no_gene
NUP107	no_gene
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NUP107	CNTNAP2
NUP107	CNTNAP2
CTNNA3	CTNNA3
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AUTS2	AUTS2
PGM5P2	NPSR1-AS1
CTNNA3	CTNNA3
AUTS2	AUTS2
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TERF2	no_gene
TERF2	no_gene
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CTNNA3	no_gene
SMA4	no_gene
CYB5B	no_gene
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CPSF6	no_gene
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NFAT5	PRKCZ
NFAT5	PRKCZ
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LYZ	no_gene
LYZ	no_gene
AUTS2	LOC100287944
YEATS4	no_gene
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YEATS4	SLC12A7
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FRS2	no_gene
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LOC10050571	TRPA1
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LOC10050571	LOC100505718
CCT2	no_gene
CCT2	BRD9
CCT2	no_gene
CCT2	BRD9
LOC10050571	LOC100505718
PDXDC2P	MIR3180-1
PDXDC2P	MIR3180-1
BEST3	MYL6
BEST3	MYL6B
BEST3	DGKA
BEST3	DGKA
BEST3	FLJ12825
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GTF2H2	no_gene
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LMBRD1	no_gene
CBWD3	CBWD1
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COL19A1	no_gene
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CNOT2	no_gene
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CNOT2	no_gene
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BCYRN1	TMEM131
CNOT2	no_gene
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KCNMB4	PLEKHA7
KCNMB4	PLEKHA7
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CBWD3	no_gene
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CBWD3	no_gene
PTPRB	no_gene
PTPRB	TRIP13
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PTPRB	SLC12A7
PTPRB	PTPRR

PTPRR	PTPRB
PTPRR	no_gene
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NCOA2	no_gene
PTPRR	CCNT1
PTPRR	CCNT1
NCOA2	NCOA2
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PTPRR	TPPP
PTPRR	TPPP
OR7E91P	NA
PTPRR	no_gene
NCOA2	ADAMTS2
PTPRR	no_gene
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PTPRR	NKD2
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THSD4	THSD4
PAIP2B	no_gene
PAIP2B	no_gene
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PAIP2B	no_gene
THSD4	FMO1
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THSD4	THSD4
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COL13A1	COL13A1
COL13A1	COL13A1
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THSD4	PIGK
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SAR1A	no_gene
FAM189A2	no_gene
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NEGR1	no_gene
OGFRL1	no_gene
ZFC3H1	LOC100507377
ZFC3H1	no_gene
ZFC3H1	no_gene
THAP2	no_gene
THAP2	no_gene
TMEM19	TRHDE
TMEM19	TRHDE
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TNPO1	no_gene
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EYA1	EYA1
TBC1D15	no_gene
TBC1D15	no_gene
EYA1	EYA1
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FCHO2	IGF2R
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TPH2	GAS2
TPH2	PIK3C2G
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RIMS1	no_gene
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ARIH1	NPTN
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TRPA1	no_gene
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PPP4R2	LOC728613
PPP4R2	LOC728613
STX1A	no_gene
ARHGEF28	no_gene
DPF3	DPF3
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DPF3	TMC2
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ADAMTS3	no_gene
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KCNB2	no_gene
KCNQ5	no_gene
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NPTN	ARIH1
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LOC10013030	no_gene
DGUOK	DGUOK
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KLF12	KLF12
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KLF12	KLF12
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RASSF6	no_gene
LRRIQ3	DDAH1
CD109	CD109
LRRIQ3	no_gene
LRRIQ3	ACADM
LRRIQ3	AK5
no_gene	RASSF6
LRRIQ3	no_gene
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LOC10050737	NAV2
CD109	CD109
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LRRIQ3	VAV3
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LRRIQ3	no_gene
LOC10050737	no_gene
LOC10050737	no_gene
FPGT-TNNI3K	no_gene
FPGT-TNNI3K	PIGK
LOC10050737	ZFC3H1
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TMEM170A	no_gene
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KCNC2	no_gene
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LHX8	LOC100129620
SLC44A5	no_gene
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PI15	no_gene
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SLC44A5	no_gene
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SLC44A5	MGC27382
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TMC6	no_gene
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ACADM	LRRIQ3
LOC10013309	no_gene
ACADM	CLCA2
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MSH4	DDAH1
CNTNAP4	no_gene
ASB17	no_gene
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ST6GALNAC3	ST6GALNAC3
ST6GALNAC3	no_gene
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ST6GALNAC3	no_gene
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ATRX	no_gene
ST6GALNAC3	no_gene
ST6GALNAC3	DDAH1
ST6GALNAC3	LOC100128787
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ATP9B	ATP9B
ST6GALNAC3	PKN2
ST6GALNAC3	BCAR3
ST6GALNAC3	no_gene
no_gene	NPHP3-AS1
ATP9B	ATP9B
SCAPER	SCAPER
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ST6GALNAC3	no_gene
OSBPL8	no_gene
ST6GALNAC3	no_gene
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ST6GALNAC5	no_gene
AP3B1	no_gene
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ST6GALNAC5	LRRC8B
ST6GALNAC5	LOC100131564
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PIGK	THSD4
PIGK	FPGT-TNNI3K
PIGK	no_gene
PEAK1	HMG20A
MYCBP2	MYCBP2
HMG20A	PEAK1
MYCBP2	MYCBP2
TXNL4A	UGT3A1

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C10orf11	C10orf11
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C10orf11	C10orf11
AK5	CDC14A
MAGI2	MAGI2
AK5	no_gene
AK5	LRRIQ3
AK5	no_gene
MAGI2	MAGI2
ZZZ3	no_gene
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ZZZ3	MGC27382
MIR548H3	MIR548H3
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LOC645752	no_gene
DMGDH	no_gene
SLAIN1	SLAIN1
ADCK1	ADCK1
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ADCK1	ADCK1
BHMT	METTL21A
no_gene	AK5
DNAJB4	no_gene
DNAJB4	no_gene
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GIPC2	GIPC2
GIPC2	GIPC2
GIPC2	GFI1
EDNRB	no_gene
GIPC2	no_gene
GIPC2	RPAP2
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MGC27382	SLC44A5
MGC27382	ZZZ3
MGC27382	LOC729970
MGC27382	no_gene
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MGC27382	NTNG1
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TENM4	CSGALNACT1
TENM4	CSGALNACT1
PTGFR	no_gene
MAGI2	MAGI2
PTGFR	no_gene
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MAGI2	MAGI2
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TENM4	EPB41
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MAGI2-AS3	CCZ1B
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SYT1	no_gene
ELTD1	HFM1
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LOC10050587	no_gene
DHFR	HLA-B
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CTNNA2	CTNNA2
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LCA5	DNAH11
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GDEP	no_gene
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BCKDHB	BCKDHB
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MRPS28	MRPS28
ANTXR2	ANTXR2
BCKDHB	BCKDHB
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C4orf22	C4orf22
CEP128	CEP128
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C4orf22	C4orf22
GAN	no_gene

CEP128	CEP128
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ACSS3	SRGAP1
ACSS3	SRGAP1
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ACSS3	no_gene
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FABP9	no_gene
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SH2D4B	no_gene
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FAM46A	no_gene
XRCC4	XRCC4
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XRCC4	XRCC4
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GOLGA6L10	no_gene
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ME1	no_gene
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MIR548AP	MIR548AP
APOOL	no_gene
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MIR548AP	TGFBR3
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TTL7	no_gene
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PRKACB	DPYD

NRG3	NRG3
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PRKACB	SSX2IP
PRKACB	no_gene
NRG3	NRG3
PRKACB	no_gene
DLG2	DLG2
PRKACB	no_gene
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DLG2	DLG2
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SAMD13	no_gene
SAMD13	LRRIQ3
LOC388152	no_gene
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DNASE2B	no_gene
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CRISPLD2	USP10
CRISPLD2	USP10
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C1orf180	no_gene
SSX2IP	PRKACB
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CHM	no_gene
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MCOLN2	no_gene
SYTL2	no_gene
MCOLN3	CCDC18
MCOLN3	no_gene
WDR63	no_gene
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WDR63	BCAR3
SYDE2	no_gene
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C1orf52	no_gene
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BCL10	ZNF326
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DDAH1	no_gene
DDAH1	LRRIQ3
DACH2	DACH2
DDAH1	MSH4
DDAH1	ST6GALNAC3
DDAH1	COL24A1
DACH2	DACH2
DDAH1	LMO4
DDAH1	MTF2
C10orf99	CDC42BPA
C10orf99	CDC42BPA
DDAH1	no_gene

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DDAH1	15-Sep
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DACH2	no_gene
DACH2	NDUFA4
CADM2	HTR1F
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CADM2	no_gene
ZNHIT6	GLMN
ZNHIT6	no_gene
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CCSER2	CCSER2
COL24A1	COL24A1
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MGAT4C	AGR3
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COL24A1	no_gene
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COL24A1	DDAH1
COL24A1	COL24A1
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COL24A1	HSD3B2
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MGAT4C	MGAT4C
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ODF2L	LRRC8B
ODF2L	LPHN2
ODF2L	no_gene
ODF2L	no_gene
ODF2L	ALG14
ODF2L	SLC25A24
AGBL1	AGBL1
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CLCA2	ACADM
CLCA2	GLMN
AGBL1	AGBL1
CLCA2	FPGT-TNNI3K
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RMND5A	LOC285074
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CLCA4	no_gene
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RGPD2	no_gene
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HS2ST1	RPAP2
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HS2ST1	no_gene
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HS2ST1	no_gene
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LMO4	DDAH1
LMO4	DNTTIP2
CNBD1	no_gene
GJB7	C6orf163
HTR1F	CADM2
HTR1F	no_gene
C6orf163	GJB7
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RGPD2	RGPD5
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RGPD2	RGPD1

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RGPD1	RGPD2
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RPIA	no_gene
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ABCG2	no_gene
DET1	no_gene
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RNGTT	RNGTT
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CCBL2	SLC30A7
RNGTT	RNGTT

RNGTT	MARCO
CCBL2	ST6GALNAC3
CCBL2	TAF13
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TRIM49	no_gene
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MIR5692A1	no_gene
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GBP6	DPYD
NAALAD2	no_gene
NAALAD2	no_gene
GBP1P1	no_gene
FAM13A	FAM13A
FAM13A	FAM13A
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LRR8B	no_gene
LRR8B	BTBD8
LRR8B	no_gene
LRR8B	ST6GALNAC5
LRR8B	no_gene
LRR8B	ODF2L
GPR98	no_gene
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LRR8D	no_gene
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PCDH11X	no_gene
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CCSER1	PDE10A
CCSER1	no_gene
PEX1	no_gene
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TGFBR3	MIR548AP

TGFBR3	RNPC3
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CCSER1	C1orf186
TGFBR3	no_gene
TRIP11	no_gene
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EPHX4	no_gene
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BTBD8	no_gene
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HTR7	no_gene
BTBD8	no_gene
BTBD8	LRRC8B
BTBD8	RPAP2
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C1orf146	RPAP2
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GLMN	CLCA2
FLJ42709	no_gene
GLMN	ZNHIT6
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RPAP2	C1orf146
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RPAP2	GIPC2

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RPAP2	HS2ST1
RPAP2	ST6GALNAC3
RPAP2	no_gene
RPAP2	RPAP2
RPAP2	KIAA1324
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RPAP2	BTBD8
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CCDC132	no_gene
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GFI1	no_gene
GFI1	GIPC2
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EVI5	no_gene
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PCGF5	LOC100188947
EVI5	no_gene
EVI5	CLCA4
EVI5	no_gene
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RUNX1T1	RIMS2
GRID2	GRID2
C11orf75	SRP14
GRID2	GRID2
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FAM69A	TYW3
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LOC643339	LOC643339
MTF2	no_gene
MTF2	DDAH1
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MTF2	no_gene
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LOC643339	LOC643339
TMED5	no_gene
CCDC18	MCOLN3
CCDC18	ACTG1P4
KIAA0825	no_gene
CCDC18	LPAR3
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CCDC18	DBT
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LOC10013156	ST6GALNAC5
LOC10013156	LPPR5
LOC10013156	WDR47
DR1	no_gene
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TRIQQ	TRIQQ
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BCAR3	no_gene
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CRADD	COL4A1
BCAR3	no_gene
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BCAR3	AKNAD1
DNTTIP2	LMO4
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CCDC41	FTMT
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SERPINA12	CSNK1G1
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CNN3	no_gene
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LOC729970	RPL22
LOC729970	MGC27382
RAD54B	RAD54B
ALG14	no_gene
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TMEM56-RW	no_gene
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ADH5	no_gene
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SLC35A3	no_gene
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HIAT1	no_gene
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LRRC39	no_gene
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ARHGAP42	no_gene
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CDC14A	no_gene
CDC14A	no_gene
HPSE2	HPSE2
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CORO2A	CORO2A
WDR25	WDR25
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CDC14A	HENMT1
CDC14A	AK5
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AMY1B	no_gene
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FAM155A	FAM155A
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BRAP	no_gene
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ALDH2	no_gene
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PALM2	PALM2-AKAP2
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PALM2-AKAP2	PALM2
MERTK	MERTK
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RGPD5	RGPD2
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ANK2	ANK2
IL1RN	INSIG2
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MAGI3	SCN8A
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TBX3	no_gene
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AFAP1L2	AFAP1L2
AFAP1L2	AFAP1L2
DPP10	DPP10
DPP10	DPP10
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FRK	FRK
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FRK	FRK
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DPP10	DPP10
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TRPS1	FAM150A
NT5DC1	no_gene
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LINC00536	LINC00536
MAP1LC3B2	no_gene
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LINC00536	LINC00536
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KLHL13	KLHL13
KLHL13	KLHL13
FBXW8	PFKM
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MAN1A2	MAN1A2
MAN1A2	MAN1A2
MAN1A2	no_gene
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1-Dec	1-Dec
1-Dec	1-Dec
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KSR2	KSR2
DTWD2	no_gene
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UBE4A	LOC100131626
LOC10013162	UBE4A
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CEP85L	CEP85L
INSIG2	IL1RN
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SAMD12	no_gene
MARCO	RNGTT
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ASTN2	no_gene
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HSD3B2	COL24A1
HSD3B2	COL24A1
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FAM204A	no_gene
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DBI	LOC100505989
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NOTCH2	NBPF3
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PTPN4	PTPN4

GRIK4	GRIK4
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EPB41L5	EPB41L5
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EPB41L5	EPB41L5
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DEPTOR	KCNQ3
STXBP5L	no_gene
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COL14A1	COL14A1
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FTMT	CCDC41
COL14A1	COL14A1
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AASS	PTPRZ1
DBC1	DBC1
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CASR	no_gene
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CLMP	FEZ1
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ZNF664-FAM1	ZNF664-FAM101A
FLJ46361	no_gene
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ZNF664-FAM1	ZNF664-FAM101A

TTLL11	TTLL11
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CNTNAP5	no_gene
CNTNAP5	REL
CNTNAP5	PUS10
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NKAIN2	NKAIN2
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FEZ1	CLMP
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OR1B1	no_gene
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OR1L1	no_gene
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CPXM2	C1orf116
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RC3H2	NRTN
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RABGAP1	NFE2L1
SLC41A3	SLC41A3
SLC41A3	SLC41A3
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CDON	no_gene
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C5orf63	C5orf63
C5orf63	C5orf63
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CHCHD6	CHCHD6
KIRREL3	KIRREL3
CHCHD6	CHCHD6
KIRREL3	KIRREL3
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FBN2	no_gene
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LEP	no_gene
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CPA4	no_gene
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STXBP1	no_gene
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LOC10013132	OR6C3
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RAPGEF6	no_gene
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DNM1	DNM1P35
GOLGA2	DNM1P35
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ASAP1	ASAP1
ASAP1	ASAP1
POTEJ	no_gene

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MGMT	MGMT
MGMT	MGMT
CPNE4	CPNE4
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CPNE4	CPNE4
CCBL1	DHRS4L2
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NTM	NTM
NTM	NTM
ADCY8	ADCY8
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NTM	NTM
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ENPP3	no_gene
NTM	NTM
PLXNA4	PLXNA4
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PLXNA4	PLXNA4
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OPCML	EYS
NPHP3-AS1	no_gene
C2orf27B	no_gene
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STX7	no_gene
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TCERG1L	no_gene
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GPR39	GPR39
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KCNQ3	LOC100616530
KCNQ3	DEPTOR
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GLB1L3	no_gene
GLB1L3	no_gene
CATSPER3	no_gene
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RAPGEF1	STXBP5L
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MED27	MED27
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MAP3K19	no_gene
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ADAMTSL2	no_gene
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SPOCK1	SPOCK1
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CHRM2	CHRM2
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PTN	ZNF678
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CLDN18	DZIP1L
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ETF1	no_gene
THSD7B	THSD7B
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COL22A1	no_gene
ELF2	no_gene

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CACNA1B	CACNA1B
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TRAPPC9	TRAPPC9
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TRAPPC9	TRAPPC9
LRP1B	no_gene
SSBP1	no_gene
TAS2R38	MGAM
MGAM	TAS2R38
PTK2	PTK2
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PTK2	PTK2
RNF150	no_gene
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LRP1B	LRP1B
LRP1B	LRP1B
LRP1B	LRP1B
LRP1B	LRP1B
PTK2	PTK2
PTK2	no_gene
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XRN1	XRN1
XRN1	XRN1
SPANXN4	SPANXN2
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ARHGAP26	ARHGAP26
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ANKRD20A12P	no_gene
ANKRD20A12P	SLC6A19
SPANXN2	SPANXN4
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FLJ39739	no_gene
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LINC00623	FLJ39739
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ZFP41	LINC00639
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TOP1MT	no_gene
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NBPF9	NBPF14
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NBPF9	NOTCH2NL
NBPF9	NA
GYPE	no_gene
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GYPE	no_gene
NBPF9	no_gene
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PDE4DIP	NA
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PDE4DIP	EFNA3
GYPB	no_gene
PDE4DIP	NOTCH2NL
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PPP2R2B	PPP2R2B
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STK32A	LOC100505495
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CNTNAP2	NUP107
CNTNAP2	NUP107
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STXBP5-AS1	STXBP5-AS1
STXBP5-AS1	STXBP5-AS1
CNTNAP2	no_gene
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SPINK6	no_gene
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SPINK13	SPINK7
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FLJ39739	LINC00623
CNTNAP2	no_gene
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HTR4	no_gene
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ARHGAP10	ARHGAP10

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MAGEA8	MAGEA9B
MBD5	no_gene
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ENSA	no_gene
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LRBA	no_gene
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GALNT11	no_gene
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TPM3	no_gene
HAX1	no_gene
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EFNA3	PDE4DIP
SLC50A1	RABGAP1L
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ASH1L	POU5F1B
ASH1L	no_gene
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KCNJ3	no_gene
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SGCD	no_gene
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CYFIP2	CYFIP2
HDGF	no_gene
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ADAM19	ADAM19
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FNDC1	no_gene
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MIR3142	no_gene
COPA	no_gene
COPA	SUMO1P1
COPA	no_gene
IGF2R	FCHO2
CD48	PRAMEF12
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CD48	no_gene
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LY75-CD302	PLA2R1
LY75-CD302	PLA2R1
PLA2R1	LY75-CD302
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PCP4L1	no_gene
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PDE10A	no_gene
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PDE10A	CCSER1
SCN3A	no_gene
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SCN2A	SCN9A
FMO9P	no_gene
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TENM2	ATP6V0E1
SFT2D1	no_gene
TTC21B	no_gene
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TENM2	RNF145
TENM2	RARS
TENM2	RPL26L1
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SCN9A	SCN2A
TENM2	TENM2
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WDR49	CAMKMT
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MROH9	no_gene
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FMO1	THSD4
MYO3B	no_gene
PRRC2C	no_gene
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STK10	SFXN1
TLK1	no_gene
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RPL26L1	TENM2
ATP6V0E1	no_gene
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FLJ16171	no_gene
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DRD1	no_gene
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SFXN1	STK10
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CPLX2	no_gene
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ADAM29	no_gene
GPRIN1	no_gene
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PAPPA2	DPYD
NSD1	no_gene
TBL1XR1	OPA1
FAM153A	CDKN2B-AS1
FAM153A	CDKN2B-AS1
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HNRNPA3	SCN8A
KCNMB2	KCNMB2
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ADAMTS2	NCOA2
ADAMTS2	NCOA2
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FAM20B	no_gene
ABL2	no_gene
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FLJ23867	LHX4
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CERKL	no_gene
ALG3	no_gene

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VPS8	SDHAP3
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PLA2G4A	TTY11
CYP4V2	no_gene
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MFSD6	TMEM194B
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TMEM194B	MFSD6
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CDC73	no_gene
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OPA1	TBL1XR1
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HECW2	HECW2
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DENND1B	no_gene
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LHX9	no_gene
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PPP1R12B	PPP1R12B
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LOC148709	no_gene
LOC730227	no_gene
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LRRN2	no_gene
ICOS	no_gene
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LOC284581	no_gene
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C1orf186	CCSER1
C1orf186	no_gene
IL20	no_gene
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C1orf116	CPXM2
DYTN	no_gene
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CR2	SHANK3
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PTH2R	no_gene
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HSD11B1	ZNF25
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HSD11B1	TRAF3IP3
TRAF3IP3	HSD11B1
TRAF3IP3	DUSP10
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HHAT	no_gene
KCNH1	KCNH1
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TRAF5	DROSHA
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LPGAT1	LHX9
ERBB4	ERBB4
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ITPKB	no_gene
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CDC42BPA	C10orf99
CDC42BPA	C10orf99
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ZNF678	CCNB3
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TARBP1	no_gene
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RBM34	no_gene
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ASB18	no_gene
RYR2	RYR2
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HDAC4	HDAC4
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RGS7	RGS7
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CAPN10	GPR35
GPR35	CAPN10
PLD5	no_gene
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PLD5	GLYATL3
D2HGDH	no_gene
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ZNF670-ZNF69	NA
ZNF124	no_gene
ZNF124	LONRF1
OR6F1	LOC100508120
OR2W3	no_gene
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OR2T29	OR2T10

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